

SCRs, Triacs, AC switches and A.S.D™



**High commutation and voltage immunity
for appliances, charging and industrial power switching**

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Triacs

| | High Temperature | Standard | Logic Level | Snubberless™ | AVS | VBO min | VBO max | T _J max |
|-------------------------------------|------------------|-------------|------------------|--------------|-------------|---------|---------|--------------------|
| I _{TRMS} max | 4 - 30 A | 1 - 40 A | 0.8 - 16 A | 4 - 25 A | 8 - 12 A | | | |
| V _{DRM} , V _{RRM} | 600 - 800 V | 600 - 800 V | 600 - 800 V | 600 - 1200 V | 500 - 600 V | | | |
| I _{FSM} max | 30 - 270 A | 8 - 400 A | 8 - 160 A | 30 - 250 A | 65 - 100 A | | | |
| I _{GT} max | 10 - 50 mA | 25 - 50 mA | 3 - 50 mA | 10 - 50 mA | 5 - 10 mA | | | |
| T _J max | 150 °C | 125 °C | 110 - 125 °C | 125 °C | 125 °C | | | |
| | 3 or 4 quadrants | | 3 or 4 quadrants | 3 quadrants | | | | |

SCR

| | High Temperature | Standard | Logic Level |
|-------------------------------------|--------------------|--------------|-------------|
| I _{TRMS} max | 12 - 80 A | 6 - 50 A | 0.8 - 12 A |
| V _{DRM} , V _{RRM} | 600 - 1200 V | 600 - 1200 V | 600 - 800 V |
| I _{FSM} max | 120 - 670 A | 70 - 700 A | 7 - 110 A |
| I _{GT} max | 5 - 50 mA | 5 - 80 mA | 1 - 200 µA |
| T _J max | 150 °C | 125 °C | 125 °C |
| | Automotive options | | |

AC Switches

| | ACS |
|-------------------------------------|-------------|
| I _{TRMS} max | 0.8 - 2 A |
| V _{DRM} , V _{RRM} | 600 - 800 V |
| I _{FSM} max | 7.3 - 20 A |
| I _{GT} max | 5 - 10 mA |
| T _J max | 125 °C |

AC switches

ACST OVERVOLTAGE SELF-PROTECTED SWITCHES

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering gate current | Clamping voltage | Rate of decrease of commutating on-state current | Rising ratio of off voltage |
|-------------|--|---------------------------------|----------------------|-----------------------------------|--|----------------------|-------------------------|-------------------------|--|-----------------------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T_J) | I_{GT} (I, II, III) | V_{CL} (@100 μ A) | (dI/dt)c min (@ T_J max) | dV/dt (@ T_J max) |
| | | | max (A) | max (V) | max (A) | max (°C) | max (mA) | min (V) | min (A/ms) | min (V/ μ s) |
| ACST210-8 | DPAK, TO-220FPAB | Overvoltage protected AC switch | 2 | 800 | 8 | 125 | 10, 10, 10 | 850 | 0.5 | 500 |
| ACST310-8 | TO-220FPAB | Overvoltage protected AC switch | 3 | 800 | 20 | 125 | 10, 10, 10 | 850 | 1 | 1000 |
| ACST410-8 | DPAK, TO-220FPAB | Overvoltage protected AC switch | 4 | 800 | 30 | 125 | 10, 10, 10 | 850 | 2 | 500 |
| ACST435-8 | DPAK, TO-220FPAB | Overvoltage protected AC switch | 4 | 800 | 30 | 125 | 35, 35, 35 | 850 | 5 | 1000 |
| ACST610-8 | D ² PAK, TO-220AB, TO-220FPAB | Overvoltage protected AC switch | 6 | 800 | 45 | 125 | 10, 10, 10 | 850 | 3.5 | 500 |
| ACST830-8 | D ² PAK, TO-220AB, TO-220FPAB | Overvoltage protected AC switch | 8 | 800 | 80 | 125 | 30, 30, 30 | 850 | 8 | 2000 |
| ACST1010-7 | TO-220AB, TO-220FPAB | Overvoltage protected AC switch | 10 | 700 | 100 | 125 | 10, 10, 10 | 850 | 4.4 | 200 |
| ACST1035-7 | TO-220AB, TO-220FPAB | Overvoltage protected AC switch | 10 | 700 | 100 | 125 | 35, 35, 35 | 850 | 12 | 2000 |
| ACST1035-8 | TO-220FPAB | Overvoltage protected AC switch | 10 | 800 | 90 | 150 | 35, 35, 35 | 850 | 5 | 2000 |
| ACST1210-7 | D ² PAK, TO-220AB | Overvoltage protected AC switch | 12 | 700 | 120 | 125 | 10, 10, 10 | 850 | 5.3 | 200 |
| ACST1235-7 | D ² PAK, TO-220AB | Overvoltage protected AC switch | 12 | 700 | 120 | 125 | 35, 35, 35 | 850 | 14 | 2000 |
| ACST1235-8 | TO-220FPAB | Overvoltage protected AC switch | 12 | 800 | 100 | 150 | 35, 35, 35 | 850 | 6 | 2000 |
| ACST1635-8 | TO-220FPAB | Overvoltage protected AC switch | 16 | 800 | 140 | 150 | 35, 35, 35 | 850 | 4 | 300 |

ACS™ OVERVOLTAGE SELF-PROTECTED SWITCHES

| Part number | Package | General description | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM}/V_{RRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T_J) | Triggering gate current I_{GT} (I, II, III) | Clamping voltage V_{CL} (@100 μ A) | Rate of decrease of commutating on-state current (di/dt) _c min (@ T_J max) | Rising ratio of off voltage dV/dt (@ T_J max) |
|-------------|----------------------------------|---|--------------------------------------|--|---|-----------------------------------|--|---|--|--|
| | | | max (A) | max (V) | max (A) | max ($^{\circ}$ C) | max (mA) | min (V) | min (A/ms) | min (V/ μ s) |
| ACS102-6T | SO-8, TO-92 | Overvoltage protected AC switch | 0.2 | 600 | 7.3 | 125 | 5, 5 | 650 | 0.15 | 300 |
| ACS302-6 | SO-20 | Overvoltage protected triple AC switch (ACS™) | 3 x 0.2 | 600 | 7.3 | 125 | 5, 5 | 650 | 0.15 | 300 |
| ACS108-8T | SOT223 | Overvoltage protected AC switch | 0.8 | 800 | 13 | 125 | 5, 5 | 850 | 0.8 | 300 |
| ACS108 | SOT-223, TO-92 | Overvoltage protected AC switch (ACS™) | 0.8 | 800 | 13 | 125 | 10, 10 | 850 | 2 | 400 |
| ACS108-8SUN | SMBFlat-3L | Overvoltage protected AC switch (ACS™) | 0.8 | 800 | 13 | 125 | 10, 10 | 850 | 2 | 400 |
| ACS110 | SOT-223 | Overvoltage protected AC switch | 1 | 700 | 8 | 125 | 10, 10 | 750 | 0.5 | 500 |
| ACS120 | DPAK, TO-220AB, TO-220FPAB | Overvoltage protected AC switch | 2 | 700 | 20 | 125 | 10, 10 | 750 | 1 | 500 |

Thyristors (SCRs)

HIGH-TEMPERATURE THYRISTORS (SCRs)

| Part number | Package | Description | Thyristor, SCR type | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM} / V_{BRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T) | Triggering gate current I_{GT} | Rising ratio of off voltage dV/dt (@ $T_{j,max}$) |
|-----------------------------------|---|---------------------------|----------------------|-----------------------------------|---|--|--------------------------|----------------------------------|--|
| | | | | max (A) | max (V) | max (A) | max (°C) | max (mA) | min (V/μs) |
| TN1205H-6 | D ² PAK, TO 220AB | High-temperature 12A SCRs | High-temperature SCR | 12 | 600 | 120 | 150 | 5 | 100 |
| TN1605H-6 | TO220AB, TO220FPAB, D ² PAK | High-temperature 16A SCRs | High-temperature SCR | 16 | 600 | 140 | 150 | 6 | 200 |
| TN1610H-6 | TO220AB, TO220FPAB | High-temperature 16A SCRs | High-temperature SCR | 16 | 600 | 140 | 150 | 10 | 1000 |
| TN2010H-6 | TO220AB, TO220FPAB, D ² PAK | High-temperature 20A SCRs | High-temperature SCR | 20 | 600 | 180 | 150 | 10 | 400 |
| TN2015H-6 | TO220T, TO220FPAB | High-temperature 20A SCRs | High-temperature SCR | 20 | 600 | 180 | 150 | 15 | 750 |
| TN4015H-6 | D ² PAK, TO220AB Ins, TO220T | High-temperature 40A SCRs | High-temperature SCR | 40 | 600 | 360 | 150 | 15 | 500 |
| TM8050H-8W | TO-247 | High-temperature 80A SCRs | High-temperature SCR | 80 | 800 | 670 | 150 | 50 | 1000 |
| TM8050H-8D3 | D3PAK-2L | High-temperature 80A SCRs | High-temperature SCR | 80 | 800 | 670 | 150 | 50 | 1000 |
| TN3050H-12GY^(*) | D2PAK | High-temperature 30A SCRs | Automotive grade SCR | 30 | 1200 | 300 | 150 | 50 | 1000 |
| TN5050H-12WY | TO247 | High-temperature 50A SCRs | Automotive grade SCR | 50 | 1200 | 580 | 150 | 50 | 1000 |

Note: (*) Under development, ready in Q4/2016

STANDARD AND SENSITIVE THYRISTORS (SCRs)

| Part number | Package | General description | Thyristor, SCR type | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM} / V_{BRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T_J) | Triggering gate current I_{GT} | Rising ratio of off voltage dV/dt (@ T_J max) |
|----------------------------|--------------------------------|---------------------|---------------------|-----------------------------------|---|--|--------------------------------|----------------------------------|---|
| | | | | max (A) | max (V) | max (A) | max (°C) | max (mA) | min (V/μs) |
| Standard thyristors | | | | | | | | | |
| TYN606 | TO-220AB | 6 A Standard SCRs | Standard | 6 | 600 | 70 | 125 | 15 | 200 |
| TN805-600B | DPAK | 8 A Standard SCRs | Standard | 8 | 600 | 70 | 125 | 5 | 50 |
| TN815-600B | DPAK | 8 A Standard SCRs | Standard | 8 | 600 | 70 | 125 | 15 | 150 |
| TYN608 | TO-220AB | 8 A Standard SCRs | Standard | 8 | 600 | 95 | 125 | 15 | 150 |
| TN815-800B | DPAK | 8 A Standard SCRs | Standard | 8 | 800 | 70 | 125 | 15 | 150 |
| TYN610 | TO-220AB | 10 A Standard SCRs | Standard | 10 | 600 | 100 | 125 | 15 | 200 |
| TYN810 | TO-220AB | 10 A Standard SCRs | Standard | 10 | 800 | 100 | 125 | 15 | 200 |
| TN1205T-600B | DPAK | 12 A Standard SCRs | Standard | 12 | 600 | 115 | 125 | 5 | 100 |
| TYN612M | TO-220AB, TO-220FPAB | 12 A Standard SCRs | Standard | 12 | 600 | 120 | 125 | 5 | 50 |
| TXN612 | TO-220AB Ins | 12 A Standard SCRs | Standard | 12 | 600 | 120 | 125 | 15 | 200 |
| TYN612 | TO-220AB | 12 A Standard SCRs | Standard | 12 | 600 | 140 | 125 | 15, 5 | 40 |
| TN1215 | D ² PAK, DPAK, IPAK | 12 A Standard SCRs | Standard | 12 | 800 | 140 | 125 | 15 | 200 |
| TYN812 | TO-220AB | 12 A Standard SCRs | Standard | 12 | 800 | 140 | 125 | 15, 5 | 40 |
| TYN1012 | TO-220AB | 12 A Standard SCRs | Standard | 12 | 1000 | 140 | 125 | 15, 5 | 40 |
| TYN1212 | TO-220AB | 12 A Standard SCR | Standard | 12 | 1200 | 120 | 125 | 15 | 200 |
| TN1515-600B | DPAK | 15 A Standard SCRs | Standard | 15 | 600 | 150 | 125 | 15 | 200 |
| TXN616B | TO-220AB Ins | 16 A Standard SCRs | Standard | 16 | 600 | 155 | 125 | 15 | 200 |
| TYN616 | TO-220AB | 16 A Standard SCRs | Standard | 16 | 600 | 190 | 125 | 25 | 500 |
| TYN816 | TO-220AB | 16 A Standard SCRs | Standard | 16 | 600 | 190 | 125 | 25 | 500 |
| TYN816 | TO-220AB | 16 A Standard SCRs | Standard | 16 | 800 | 190 | 125 | 25 | 500 |
| TN1625-1000G | D ² PAK | 16 A Standard SCRs | Standard | 16 | 1000 | 190 | 125 | 25 | 500 |
| TXN625 | TO-220AB Ins | 25 A Standard SCRs | Standard | 25 | 600 | 300 | 125 | 40 | 1000 |

STANDARD AND SENSITIVE THYRISTORS (SCRs)

| Part number | Package | General description | Thyristor, SCR type | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM} / V_{BRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T_j) | Triggering gate current I_{GT} | Rising ratio of off voltage dV/dt (@ T_j max) |
|-----------------------------|----------------------------|----------------------------|---------------------|-----------------------------------|---|--|--------------------------------|----------------------------------|---|
| | | | | max (A) | max (V) | max (A) | max (°C) | max (mA) | min (V/ μ s) |
| TYN625 | T0-220AB | 25 A Standard SCRs | Standard | 25 | 600 | 300 | 125 | 40 | 1000 |
| TN2540 | D ² PAK | 25 A Standard SCRs | Standard | 25 | 800 | 300 | 125 | 40 | 1000 |
| TYN825 | T0-220AB | 25 A Standard SCRs | Standard | 25 | 800 | 300 | 125 | 40 | 1000 |
| TYN1225 | T0-220AB | 25 A Standard SCR | Standard | 25 | 1200 | 300 | 125 | 40 | 1000 |
| BTW68-600 | TOP 3 ISOL | 30 A Standard SCRs | Standard | 30 | 600 | 400 | 125 | 50 | 500 |
| BTW68-800 | TOP 3 ISOL | 30 A Standard SCRs | Standard | 30 | 800 | 400 | 125 | 50 | 500 |
| BTW68 | TOP 3 ISOL | 30 A Standard SCRs | Standard | 30 | 1200 | 400 | 125 | 50 | 500 |
| TYN640 | T0-220AB | 40 A Standard SCRs | Standard | 40 | 600 | 460 | 125 | 35 | 1000 |
| TYN840 | T0-220AB | 40 A Standard SCRs | Standard | 40 | 800 | 460 | 125 | 35 | 1000 |
| BTW67-600 | RD-91 | 50 A Standard SCRs | Standard | 50 | 600 | 580 | 125 | 80 | 1000 |
| BTW69-600 | TOP 3 ISOL | 50 A Standard SCRs | Standard | 50 | 600 | 580 | 125 | 80 | 1000 |
| BTW69-800 | TOP 3 ISOL | 50 A Standard SCRs | Standard | 50 | 800 | 580 | 125 | 80 | 1000 |
| BTW67-1000 | RD-91 | 50 A Standard SCRs | Standard | 50 | 1000 | 580 | 125 | 80 | 1000 |
| BTW69-1000 | TOP 3 ISOL | 50 A Standard SCRs | Standard | 50 | 1000 | 580 | 125 | 80 | 1000 |
| BTW69-1200N | TOP 3 | 50 A Standard SCRs | Standard | 50 | 1200 | 700 | 125 | 50 | 1000 |
| Sensitive thyristors | | | | | | | | | |
| XL0840 | T0-92 | 0.8 A Sensitive gate SCRs | Logic level | 0.8 | 400 | 7 | 125 | 0.2 | 75 |
| P011XX | SOT-223, T0-92 | 0.8 A Sensitive gate SCRs | Logic level | 0.8 | 600 | 7 | 125 | 0.05, 0.025 | 75 |
| P010XX | SOT-223, SOT-23, T0-92 | 0.8 A Sensitive gate SCRs | Logic level | 0.8 | 600 | 7 | 125 | 0.001, 0.2 | 100, 200 |
| X006 | T0-92 | 0.8 A Sensitive gate SCRs | Logic level | 0.8 | 600 | 9 | 125 | 0.2 | 25 |
| X00619 | SOT-223, T0-92 | 0.8 A Sensitive gate SCRs | Logic level | 0.8 | 600 | 9 | 125 | 0.2 | 40 |
| X02 | SMBflat-3L, SOT-223, T0-92 | 1.25 A Sensitive gate SCRs | Logic level | 1.25 | 600, 800 | 22.5 | 125 | 0.05, 0.2 | 15, 10 |

STANDARD AND SENSITIVE THYRISTORS (SCRs)

| Part number | Package | General description | Thyristor, SCR type | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM} / V_{BRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T_j) | Triggering gate current I_{GT} | Rising ratio of off voltage dV/dt (@ T_j max) |
|--|----------------------------------|---|--|-----------------------------------|---|--|--------------------------------|----------------------------------|---|
| | | | | max (A) | max (V) | max (A) | max (°C) | max (mA) | min (V/μs) |
| X04 | TO-202-3 | 4 A Sensitive gate SCRs | Logic level | 4 | 600, 800 | 30 | 125 | 0.05, 0.2 | 15, 10 |
| TS420 | DPAK, IPAK, TO-220AB | 4 A Sensitive gate SCRs | Logic level | 4 | 600 | 30 | 125 | 0.2 | 5 |
| TS820 | DPAK, IPAK, TO-220AB, TO-220FPAB | 8 A Sensitive gate SCRs | Logic level | 8 | 600 | 70 | 125 | 0.2 | 5 |
| TS1220 | DPAK, IPAK, TO-220AB, TO-220FPAB | 12 A Sensitive gate SCRs | Logic level | 12 | 600 | 110 | 125 | 0.2 | 5 |
| High voltage sensitive thyristors | | | | | | | | | |
| TS110-7 | SMBflat-3L, TO-92 | High surge voltage 1.25 A SCR for circuit breaker | Logic level, 1250 V surge voltage for circuit breakers | 1.25 | 700 | 25 | 125 | 0.1 | 15 |
| TS110-8 | SMBflat-3L, TO-92, S08 | High surge voltage 1.25 A SCR for circuit breaker | Logic level, 1250 V surge voltage for circuit breakers | 1.25 | 800 | 20 | 125 | 0.1 | 200 |

Thyristor application-specific discretés (ASD®)

APPLICATION-SPECIFIC IGNITORS

| Part number | Package | General description | RMS on-state current | Repetitive surge peak onstate current | Peak repeat off voltage | Peak repeat reverse voltage | Breakover voltage | Breakover voltage | Junction temperature | Critical rate of rise of on-state current |
|-------------|----------------|--------------------------------|----------------------|---------------------------------------|-------------------------|-----------------------------|-------------------|-------------------|----------------------|---|
| | | | $I_{T(RMS)}$ | I_{TRM} | V_{DRM} | V_{RRM} | V_{BO} | V_{BO} | T_j | of on-state current (di/dt) |
| | | | max (A) | typ (A) | max (V) | max (V) | min (V) | max (V) | max (°C) | max (A/μs) |
| FLC01 | DPAK, IPAK | Fire lighter circuit | - | 190 | 200 | - | 206 | 233 | 125 | 120 |
| FLC10 | DPAK | Fire lighter circuit | - | 240 | 20 | - | 200 | 250 | 125 | 200 |
| FLC21 | T0-92 | Low power fire lighter circuit | - | 90 | 135 | 135 | 140 | 160 | 125 | 50 |
| LIC01 | DPAK, IPAK | Light ignition circuit | 1.2 | 50 | 180 | 180 | 195 | 215 | 125 | 80 |
| P0130 | T0-92 | 0.8 A SCRs | 0.8 | 7 | 100 | 100 | - | - | 125 | 50 |
| TN22 | IPAK, T0-220AB | Starlight | 2 | 20 | 400 | 400 | 1200 | 1500 | 110 | 50 |

HIGH-TEMPERATURE TRIACS T-SERIES

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature (T _j) | Gate triggering quadrants | Triggering gate current I _{GT} (I, II, III, IV) | Rate of decrease of commutating on-state current (di/dt) _c (@T _j max) | Rising rate of off voltage dV/dt (@T _j max) |
|--------------------|--------------|--------------------------------------|--------------------------------|---|--|--|---------------------------|--|---|--|
| | | | I _{T(RMS)} max (A) | V _{DRM} /V _{RRM} max (V) | I _{TSM} max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| T435T-600FP | TO-220FPAB | 4-Amp Snubberless™ Triacs | 4 | 600 | 30 | 125 | I, II, III | 35, 35, 35 | 5.3 | 750 |
| T610T-8FP | TO-220FPAB | 6-Amp Triacs - Logic Level gate | 6 | 800 | 45 | 150 | I, II, III | 10, 10, 10 | 3.7 ⁽²⁾ | 170 |
| T610T-8T | TO-220AB | 6-Amp Triacs - Logic Level gate | 6 | 800 | 45 | 150 | I, II, III | 10, 10, 10 | 3.7 ⁽²⁾ | 170 |
| T635T-8FP | TO-220FPAB | 6-Amp Snubberless™ Triac | 6 | 800 | 45 | 150 | I, II, III | 35, 35, 35 | 3 | 1000 ⁽¹⁾ |
| T635T-8T | TO-220AB | 6-Amp Snubberless™ Triac | 6 | 800 | 45 | 150 | I, II, III | 35, 35, 35 | 3 | 1000 ⁽¹⁾ |
| T810T-6I | TO-220AB Ins | 8-Amp Snubberless™ Triacs | 8 | 600 | 60 | 125 | I, II, III | 10, 10, 10 | 2.5 ⁽²⁾ | 50 ⁽¹⁾ |
| T810T-8FP | TO-220FPAB | 8-Amp Snubberless™ Triacs | 8 | 800 | 60 | 150 | I, II, III | 10, 10, 10 | 4.2 ⁽²⁾ | 170 |
| T810T-8T | TO-220AB | 8-Amp Snubberless™ Triacs | 8 | 800 | 60 | 150 | I, II, III | 10, 10, 10 | 4.2 ⁽²⁾ | 170 |
| T820T-6I | TO-220AB Ins | 8-Amp Snubberless™ Triacs | 8 | 600 | 60 | 125 | I, II, III | 20, 20, 20 | 2 ⁽²⁾ | 500 ⁽¹⁾ |
| T825T-6I | TO-220AB Ins | 8-Amp 4-quadrant Standard Triacs | 8 | 600 | 60 | 125 | I, II, III, IV | 25, 25, 25, 40 | 2 ⁽²⁾ | 300 ⁽¹⁾ |
| T830-8FP | TO-220FPAB | 8-Amp Snubberless™ Triacs | 8 | 800 | 80 | 125 | I, II, III | 30, 30, 30 | 10 | 2500 |
| T835T-6I | TO-220AB Ins | 8-Amp Snubberless™ Triacs | 8 | 600 | 60 | 125 | I, II, III | 35, 35, 35 | 6.5 ⁽²⁾ | 1000 ⁽¹⁾ |
| T835T-8FP | TO-220FPAB | 8-Amp Snubberless™ Triac | 8 | 800 | 60 | 150 | I, II, III | 35, 35, 35 | 4 | 1000 ⁽¹⁾ |
| T835T-8T | TO-220AB | 8-Amp Snubberless™ Triac | 8 | 800 | 60 | 150 | I, II, III | 35, 35, 35 | 4 | 1000 ⁽¹⁾ |
| T1210T-6I | TO-220AB Ins | 12-Amp 3-quadrant Logic Level Triacs | 12 | 600 | 90 | 125 | I, II, III | 10, 10, 10 | 3 ⁽²⁾ | 50 ⁽¹⁾ |
| T1220T-6I | TO-220AB Ins | 12-Amp Snubberless™ Triacs | 12 | 600 | 90 | 125 | I, II, III | 20, 20, 20 | 3 ⁽¹⁾ | 500 ⁽¹⁾ |
| T1225T-6I | TO-220AB Ins | 12-Amp 4-quadrant Standard Triacs | 12 | 600 | 90 | 125 | I, II, III, IV | 25, 25, 25, 40 | 3 ⁽¹⁾ | 50 ⁽¹⁾ |
| T1235T-6I | TO-220AB Ins | 12-Amp Snubberless™ Triacs | 12 | 600 | 90 | 125 | I, II, III | 35, 35, 35 | 10 ⁽¹⁾ | 1000 ⁽¹⁾ |
| T1210T-8FP | TO-220FPAB | 12-Amp 3-quadrant Logic Level Triacs | 12 | 800 | 90 | 150 | I, II, III | 10, 10, 10 | 2.7 | 170 |

HIGH-TEMPERATURE TRIACS T-SERIES

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature (T _j) | Gate triggering quadrants | Triggering gate current I _{GT} (I, II, III, IV) | Rate of decrease of commutating on-state current (di/dt) _c (@T _j max) | Rising rate of off voltage dV/dt (@T _j max) |
|-------------------|--------------|--------------------------------------|--------------------------------|---|--|--|---------------------------|--|---|--|
| | | | I _{T(RMS)} max (A) | V _{DRM} /V _{RRM} max (V) | I _{TSM} max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| T1210T-8T | TO-220AB | 12-Amp 3-quadrant Logic Level Triacs | 12 | 800 | 90 | 150 | I, II, III | 10, 10, 10 | 2.7 | 170 |
| T1235T-8FP | TO-220FPAB | 12-Amp Snubberless™ Triac | 12 | 800 | 100 | 150 | I, II, III | 35, 35, 35 | 6 | 1000 ⁽¹⁾ |
| T1235T-8T | TO-220AB | 12-Amp Snubberless™ Triac | 12 | 800 | 100 | 150 | I, II, III | 35, 35, 35 | 6 | 1000 ⁽¹⁾ |
| T1610T-6I | TO-220AB Ins | 16-Amp 3-quadrant Logic Level Triacs | 16 | 600 | 120 | 125 | I, II, III | 10, 10, 10 | 3 ⁽²⁾ | 20 ⁽¹⁾ |
| T1620T-6I | TO-220AB Ins | 16-Amp Snubberless™ Triacs | 16 | 600 | 120 | 125 | I, II, III | 20, 20, 20 | 3 ⁽¹⁾ | 500 ⁽¹⁾ |
| T1635T-6I | TO-220AB Ins | 16-Amp Snubberless™ Triacs | 16 | 600 | 120 | 125 | I, II, III | 35, 35, 35 | 12 ⁽¹⁾ | 1000 ⁽¹⁾ |
| T1610T-8I | TO-220AB Ins | 16-Amp 3-quadrant Logic Level Triac | 16 | 800 | 120 | 150 | I, II, III | 10, 10, 10 | 5.4 ⁽²⁾ | 50 |
| T1610T-8FP | TO-220FPAB | 16-Amp 3-quadrant Logic Level Triacs | 16 | 800 | 120 | 150 | I, II, III | 10, 10, 10 | 15 ⁽²⁾ | 170 |
| T1610T-8T | TO-220AB | 16-Amp 3-quadrant Logic Level Triacs | 16 | 800 | 120 | 150 | I, II, III | 10, 10, 10 | 15 ⁽²⁾ | 170 |
| T1620T-8I | TO-220AB Ins | Snubberless™ 16-Amp Triac | 16 | 800 | 120 | 150 | I, II, III | 20, 20, 20 | 4.5 | 500 |
| T1625T-8I | TO-220AB Ins | 16-Amp 4-quadrant Standard Triac | 16 | 800 | 120 | 150 | I, II, III, IV | 25, 25, 25, 50 | 6 ⁽²⁾ | 300 |
| T1635T-8I | TO-220AB Ins | Snubberless™ 16-Amp Triac | 16 | 800 | 120 | 150 | I, II, III | 35, 35, 35 | 12 ⁽²⁾ | 1000 |
| T1635T-8FP | TO-220FPAB | 16-Amp Snubberless™ Triac | 16 | 800 | 120 | 150 | I, II, III | 35, 35, 35 | 8 | 1000 |
| T1635T-8T | TO-220AB | 16-Amp Snubberless™ Triac | 16 | 800 | 120 | 150 | I, II, III | 35, 35, 35 | 8 | 1000 |

Note (1) : parameter at 150 °C ;

Note (2) : parameter at 0.1 V/us and 150 °C

HIGH-TEMPERATURE TRIACS H-SERIES

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature (T _j) | Triggering quadrants | Triggering gate current I _{GT} (I, II, III) | Rate of decrease of commutating on-state current (di/dt) _c (@T _j max) | Rising rate of off voltage dV/dt (@T _j max) |
|-------------|--|--|----------------------|-----------------------------------|--|--|----------------------|--|---|--|
| | | | I _{T(RMS)} | | | | | | | |
| T410H | TO 220AB | 4-Amp sensitive Triacs - Logic Level | 4 | 600 | 40 | 150 | I, II, III | 10, 10, 10 | 1.5 ⁽¹⁾ | 75 |
| T610H | TO 220AB | 6-Amp sensitive Triacs - Logic Level | 6 | 600 | 60 | 150 | I, II, III | 10, 10, 10 | 2.3 ⁽¹⁾ | 75 |
| T810H | D ² PAK, TO-220AB | 8-Amp sensitive Triacs - Logic Level | 8 | 600 | 80 | 150 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 75 |
| T835H | D ² PAK, TO-220AB, TO-220AB Ins | 8-Amp Triacs - Snubberless™ | 8 | 600 | 80 | 150 | I, II, III | 35, 35, 35 | 11 | 1000 |
| T850H | D ² PAK, TO-220AB, TO-220AB Ins | 8-Amp Triacs - Snubberless™ | 8 | 600 | 80 | 150 | I, II, III | 50, 50, 50 | 14 | 1500 |
| T1010H | D ² PAK, TO-220AB | 10-Amp sensitive gate Triacs - Logic Level | 10 | 600 | 100 | 150 | I, II, III | 10, 10, 10 | 3.8 ⁽¹⁾ | 75 |
| T1035H | D ² PAK, TO-220AB, TO-220AB Ins | 10-Amp Triacs - Snubberless™ | 10 | 600 | 100 | 150 | I, II, III | 35, 35, 35 | 13 | 1000 |
| T1050H | D ² PAK, TO-220AB, TO-220AB Ins | 10-Amp Triacs - Snubberless™ | 10 | 600 | 100 | 150 | I, II, III | 50, 50, 50 | 18 | 1500 |
| T1235H | D ² PAK, TO-220AB, TO-220AB Ins | 12-Amp Triacs - Snubberless™ | 12 | 600 | 120 | 150 | I, II, III | 10, 10, 10 | 16 | 1000 |
| T1250H | D ² PAK, TO-220AB, TO-220AB Ins | 12-Amp Triacs - Snubberless™ | 12 | 600 | 120 | 150 | I, II, III | 50, 50, 50 | 21 | 1500 |
| T1610H | TO-220AB | 16-Amp Triacs - Logic Level | 16 | 600 | 160 | 150 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 100 |
| T1635H | D ² PAK, TO-220AB, TO-220AB Ins | 16-Amp Triacs - Snubberless™ | 16 | 600 | 160 | 150 | I, II, III | 35, 35, 35 | 21 | 1000 |
| T1650H | D ² PAK, TO-220AB, TO-220AB Ins | 16-Amp Triacs - Snubberless™ | 16 | 600 | 160 | 150 | I, II, III | 50, 50, 50 | 28 | 1500 |
| T2035H | D ² PAK, TO-220AB, TO-220AB Ins | 20-Amp Triacs - Snubberless™ | 20 | 600 | 200 | 150 | I, II, III | 35, 35, 35 | 27 | 1000 |
| T2050H | TO-220AB | 20-Amp Triacs - Snubberless™ | 20 | 600 | 200 | 150 | I, II, III | 50, 50, 50 | 36 | 1500 |
| T3035H | TO-220AB, TO-220AB Ins | 30-Amp Triacs - Snubberless™ | 30 | 600 | 270 | 150 | I, II, III | 35, 35, 35 | 33 | 1000 |
| T3050H | TO-220AB, TO-220AB Ins | 30-Amp Triacs - Snubberless™ | 30 | 600 | 270 | 150 | I, II, III | 50, 50, 50 | 44 | 1500 |

Note (1) Parameter at 10 V/μs

STANDARD AND SNUBBERLESS™ TRIACS, 0.8 A - 1 A

| Part number | Package | General description | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM}/V_{RRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T_J) | Triggering quadrants | Triggering gate current I_{GT} (I, II, III, IV) | Rate of rise of turn off voltage $(dV/dt)_c$ min ($@T_J$ max) | Rising ratio of off voltage dV/dt ($@T_J$ max) |
|-------------|----------------------------|----------------------------|-----------------------------------|---|--|--------------------------------|----------------------|---|--|---|
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (V/μs) | min (V/μs) |
| Z00607 | T0-92 | 0.8-Amp Logic Level Triacs | 0.8 | 600 | 9 | 110 | I, II, III, IV | 5, 5, 5, 7 | 0.35 | 10 |
| Z0103M | SMBflat-3L, SOT-223, T0-92 | 1-Amp Logic Level Triacs | 1 | 600 | 8 | 125 | I, II, III, IV | 3, 3, 3, 5 | 0.44 | 10 |
| Z0107M | SMBflat-3L, SOT-223, T0-92 | 1-Amp Logic Level Triacs | 1 | 600 | 8 | 125 | I, II, III, IV | 5, 5, 5, 7 | 0.44 | 20 |
| Z0109M | SMBflat-3L, SOT-223, T0-92 | 1-Amp Logic Level Triacs | 1 | 600 | 8 | 125 | I, II, III, IV | 10, 10, 10, 10 | 0.44 | 50 |
| Z0109M1 | SO-8 | 1-Amp Logic Level Triacs | 1 | 600 | 8 | 125 | I, II, III, IV | 10, 10, 10, 10 | 0.44 | 50 |
| Z0110M | SOT-223, T0-92 | 1-Amp Standard Triacs | 1 | 600 | 8 | 125 | I, II, III, IV | 25, 25, 25, 25 | 0.44 | 100 |
| Z0103N | SOT-223, T0-92 | 1-Amp Logic Level Triacs | 1 | 800 | 8 | 125 | I, II, III, IV | 3, 3, 3, 5 | 0.44 | 10 |
| Z0107N | SOT-223, T0-92 | 1-Amp Logic Level Triacs | 1 | 800 | 8 | 125 | I, II, III, IV | 5, 5, 5, 7 | 0.44 | 20 |
| Z0109N | SOT-223, T0-92 | 1-Amp Logic Level Triacs | 1 | 800 | 8 | 125 | I, II, III, IV | 10, 10, 10, 10 | 0.44 | 50 |
| Z0110N | SOT-223, T0-92 | 1-Amp Standard Triacs | 1 | 800 | 8 | 125 | I, II, III, IV | 25, 25, 25, 25 | 0.44 | 100 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current $I_{T(RMS)}$ | Repetitive peak off-state voltage V_{DRM}/V_{RRM} | Non repetitive surge peak on-state current I_{TSM} | Junction temperature (T_J) | Triggering quadrants | Triggering gate current I_{GT} (I, II, III, IV) | Rate of decrease of commutating on-state current $(di/dt)_c$ ($@T_J$ max) | Rising rate of off voltage dV/dt ($@T_J$ max) |
|--|----------------------|--------------------------|-----------------------------------|---|--|--------------------------------|----------------------|---|--|--|
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| 4 A Standard, Logic Level and Snubberless™ Triacs | | | | | | | | | | |
| Z0402MF | T0-202-3 | 4-Amp Logic Level Triacs | 4 | 600 | 20 | 125 | I, II, III, IV | 3, 3, 3, 3 | 0.5 | 10 |
| Z0405MF | T0-202-3 | 4-Amp Logic Level Triacs | 4 | 600 | 20 | 125 | I, II, III, IV | 5, 5, 5, 5 | 1 | 20 |
| Z0409MF | T0-202-3 | 4-Amp Logic Level Triacs | 4 | 600 | 20 | 125 | I, II, III, IV | 10, 10, 10, 10 | 2 | 100 |
| Z0410MF | T0-202-3 | 4-Amp Standard Triacs | 4 | 600 | 20 | 125 | I, II, III, IV | 25, 25, 25, 25 | 5 | 200 |
| T405-600 | DPAK, IPAK, T0-220AB | 4-Amp Logic Level Triacs | 4 | 600 | 30 | 125 | I, II, III | 5, 5, 5 | 0.9 | 20 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature (T _j) | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|--|----------------------|---------------------------|----------------------|------------------------------------|--|--|----------------------|----------------------------------|--|----------------------------|
| | | | I _{TRMS} | V _{DRM} /V _{RRM} | I _{TSM} | (°C) | | I _{GT} (I, II, III, IV) | (di/dt) _c (@T _j max) | (@T _j max) |
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| T410-600 | DPAK, IPAK, TO-220AB | 4-Amp Logic Level Triacs | 4 | 600 | 30 | 125 | I, II, III | 10, 10, 10 | 2 | 40 |
| T405Q-600 | DPAK, IPAK | 4-Amp Logic Level Triacs | 4 | 600 | 35 | 125 | I, II, III, IV | 5, 5, 5, 10 | 1.8 | 10 |
| T435-600 | DPAK, IPAK, TO-220AB | 4-Amp Snubberless™ Triacs | 4 | 600 | 35 | 125 | I, II, III | 35, 35, 35 | 2.5 | 400 |
| BTB04-600SL | TO-220AB | 4-Amp Standard Triacs | 4 | 600 | 35 | 125 | I, II, III, IV | 10, 10, 10, 25 | 1.8 | 75 |
| Z0402NF | TO-202-3 | 4-Amp Logic Level Triacs | 4 | 800 | 20 | 125 | I, II, III, IV | 3, 3, 3, 3 | 0.5 | 10 |
| Z0405NF | TO-202-3 | 4-Amp Logic Level Triacs | 4 | 800 | 20 | 125 | I, II, III, IV | 5, 5, 5, 5 | 1 | 20 |
| Z0409NF | TO-202-3 | 4-Amp Logic Level Triacs | 4 | 800 | 20 | 125 | I, II, III, IV | 10, 10, 10, 10 | 2 | 100 |
| Z0410NF | TO-202-3 | 4-Amp Standard Triacs | 4 | 800 | 20 | 125 | I, II, III, IV | 25, 25, 25, 25 | 5 | 200 |
| T405-800 | DPAK, IPAK | 4-Amp Logic Level Triacs | 4 | 800 | 30 | 125 | I, II, III | 5, 5, 5 | 0.9 | 20 |
| T410-800 | DPAK, IPAK, TO-220AB | 4-Amp Logic Level Triacs | 4 | 800 | 30 | 125 | I, II, III | 10, 10, 10 | 2 | 40 |
| T435-800 | DPAK, IPAK, TO-220AB | 4-Amp Snubberless™ Triacs | 4 | 800 | 30 | 125 | I, II, III | 35, 35, 35 | 2.5 | 400 |
| 6 A Standard, Logic Level and Snubberless™ Triacs | | | | | | | | | | |
| BTB06-600TW | TO-220AB | 6-Amp Logic Level Triacs | 6 | 600 | 60 | 125 | I, II, III | 5, 5, 5 | 1.2 ⁽²⁾ | 20 |
| BTA06-600TW | TO-220AB Ins | 6-Amp Logic Level Triacs | 6 | 600 | 60 | 125 | I, II, III | 5, 5, 5 | 1.2 ⁽²⁾ | 20 |
| BTB06-600SW | TO-220AB | 6-Amp Logic Level Triacs | 6 | 600 | 60 | 125 | I, II, III | 10, 10, 10 | 2.4 ⁽²⁾ | 40 |
| BTA06-600SW | TO-220AB Ins | 6-Amp Logic Level Triacs | 6 | 600 | 60 | 125 | I, II, III | 10, 10, 10 | 2.4 ⁽²⁾ | 40 |
| BTB06-600C | TO-220AB | 6-Amp Standard Triacs | 6 | 600 | 60 | 125 | I, II, III, IV | 25, 25, 25, 50 | 2.7 ⁽²⁾ | 200 |
| BTA06-600C | TO-220AB Ins | 6-Amp Standard Triacs | 6 | 600 | 60 | 125 | I, II, III, IV | 25, 25, 25, 50 | 2.7 ⁽²⁾ | 200 |
| BTB06-600CW | TO-220AB | 6-Amp Snubberless™ Triacs | 6 | 600 | 60 | 125 | I, II, III | 35, 35, 35 | 3.5 | 400 |
| BTA06T-600CWRG | TO-220AB Ins | 6-Amp Snubberless™ Triacs | 6 | 600 | 45 | 125 | I, II, III | 35, 35, 35 | 8 | 750 |
| BTA06-600CW | TO-220AB Ins | 6-Amp Snubberless™ Triacs | 6 | 600 | 60 | 125 | I, II, III | 35, 35, 35 | 3.5 | 400 |
| BTB06-600BW | TO-220AB | 6-Amp Snubberless™ Triacs | 6 | 600 | 60 | 125 | I, II, III | 50, 50, 50 | 5.3 | 1000 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature (T _j) | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|--|--------------|---------------------------|----------------------|------------------------------------|--|--|----------------------|----------------------------------|--|----------------------------|
| | | | I _{TRMS} | V _{DRM} /V _{RRM} | I _{TSM} | (°C) | | I _{GT} (I, II, III, IV) | (di/dt) _c (@T _j max) | (@T _j max) |
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| BTA06-600BW | TO-220AB Ins | 6-Amp Snubberless™ Triacs | 6 | 600 | 60 | 125 | I, II, III | 50, 50, 50 | 5.3 | 1000 |
| BTB06-600B | TO-220AB | 6-Amp Standard Triacs | 6 | 600 | 60 | 125 | I, II, III, IV | 50, 50, 50, 100 | 2.7 ⁽²⁾ | 400 |
| BTA06-600B | TO-220AB Ins | 6-Amp Standard Triacs | 6 | 600 | 60 | 125 | I, II, III, IV | 50, 50, 50, 100 | 2.7 ⁽²⁾ | 400 |
| BTB06-800TW | TO-220AB | 6-Amp Logic Level Triacs | 6 | 800 | 60 | 125 | I, II, III | 5, 5, 5 | 1.2 ⁽²⁾ | 20 |
| BTA06-800TW | TO-220AB Ins | 6-Amp Logic Level Triacs | 6 | 800 | 60 | 125 | I, II, III | 5, 5, 5 | 1.2 ⁽²⁾ | 20 |
| BTB06-800SW | TO-220AB | 6-Amp Logic Level Triacs | 6 | 800 | 60 | 125 | I, II, III | 10, 10, 10 | 2.4 ⁽²⁾ | 40 |
| BTA06-800SW | TO-220AB Ins | 6-Amp Logic Level Triacs | 6 | 800 | 60 | 125 | I, II, III | 10, 10, 10 | 2.4 ⁽²⁾ | 40 |
| BTB06-800C | TO-220AB | 6-Amp Standard Triacs | 6 | 800 | 60 | 125 | I, II, III, IV | 25, 25, 25, 50 | 2.7 ⁽¹⁾ | 200 |
| BTA06-800C | TO-220AB Ins | 6-Amp Standard Triacs | 6 | 800 | 60 | 125 | I, II, III, IV | 25, 25, 25, 50 | 2.7 ⁽¹⁾ | 200 |
| BTB06-800CW | TO-220AB | 6-Amp Snubberless™ Triacs | 6 | 800 | 60 | 125 | I, II, III | 35, 35, 35 | 3.5 | 400 |
| BTA06-800CW | TO-220AB Ins | 6-Amp Snubberless™ Triacs | 6 | 800 | 60 | 125 | I, II, III | 35, 35, 35 | 3.5 | 400 |
| BTB06-800BW | TO-220AB | 6-Amp Snubberless™ Triacs | 6 | 800 | 60 | 125 | I, II, III | 50, 50, 50 | 5.3 | 1000 |
| BTA06-800BW | TO-220AB Ins | 6-Amp Snubberless™ Triacs | 6 | 800 | 60 | 125 | I, II, III | 50, 50, 50 | 5.3 | 1000 |
| BTB06-800B | TO-220AB | 6-Amp Standard Triacs | 6 | 800 | 60 | 125 | I, II, III, IV | 50, 50, 50, 100 | 2.7 ⁽²⁾ | 400 |
| BTA06-800B | TO-220AB Ins | 6-Amp Standard Triacs | 6 | 800 | 60 | 125 | I, II, III, IV | 50, 50, 50, 100 | 2.7 ⁽²⁾ | 400 |
| 8 A Standard, Logic Level and Snubberless™ Triacs | | | | | | | | | | |
| BTB08-600TW | TO-220AB | 8-Amp Logic Level Triacs | 8 | 600 | 80 | 125 | I, II, III | 5, 5, 5 | 1.5 ⁽¹⁾ | 20 |
| BTA08-600TW | TO-220AB Ins | 8-Amp Logic Level Triacs | 8 | 600 | 80 | 125 | I, II, III | 5, 5, 5 | 1.5 ⁽¹⁾ | 20 |
| BTB08-600SW | TO-220AB | 8-Amp Logic Level Triacs | 8 | 600 | 80 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| BTA08-600SW | TO-220AB Ins | 8-Amp Logic Level Triacs | 8 | 600 | 80 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| T810-600 | D2PAK, IPAK | 8-Amp Logic Level Triacs | 8 | 600 | 80 | 125 | I, II, III | 10, 10, 10 | 2.8 | 40 |
| BTB08-600C | TO-220AB | 8-Amp Standard Triacs | 8 | 600 | 80 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| BTA08-600C | TO-220AB Ins | 8-Amp Standard Triacs | 8 | 600 | 80 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|-------------|--------------|---------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|----------------------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T) | | I_{GT} (I, II, III, IV) | (dI/dt) _c (@T _j max) | (@T _j max) |
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| BTB08-600CW | TO-220AB | 8-Amp Snubberless™ Triacs | 8 | 600 | 80 | 125 | I, II, III | 35, 35, 35 | 4.5 | 400 |
| BTA08-600CW | TO-220AB Ins | 8-Amp Snubberless™ Triacs | 8 | 600 | 80 | 125 | I, II, III | 35, 35, 35 | 4.5 | 400 |
| T835-600 | D2PAK | 8-Amp Snubberless™ Triacs | 8 | 600 | 80 | 125 | I, II, III | 35, 35, 35 | 4.5 | 400 |
| BTB08-600BW | TO-220AB | 8-Amp Snubberless™ Triacs | 8 | 600 | 80 | 125 | I, II, III | 50, 50, 50 | 7 | 1000 |
| BTA08-600BW | TO-220AB Ins | 8-Amp Snubberless™ Triacs | 8 | 600 | 80 | 125 | I, II, III | 50, 50, 50 | 7 | 1000 |
| BTB08-600B | TO-220AB | 8-Amp Standard Triacs | 8 | 600 | 80 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |
| BTA08-600B | TO-220AB Ins | 8-Amp Standard Triacs | 8 | 600 | 80 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |
| BTB08-800TW | TO-220AB | 8-Amp Logic Level Triacs | 8 | 800 | 80 | 125 | I, II, III | 5, 5, 5 | 1.5 ⁽¹⁾ | 20 |
| BTA08-800TW | TO-220AB Ins | 8-Amp Logic Level Triacs | 8 | 800 | 80 | 125 | I, II, III | 5, 5, 5 | 1.5 ⁽¹⁾ | 20 |
| BTB08-800SW | TO-220AB | 8-Amp Logic Level Triacs | 8 | 800 | 80 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| BTA08-800SW | TO-220AB Ins | 8-Amp Logic Level Triacs | 8 | 800 | 80 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| T810-800B | DPAK | 8-Amp Logic Level Triacs | 8 | 800 | 80 | 125 | I, II, III | 10, 10, 10 | 2.8 | 40 |
| BTB08-800C | TO-220AB | 8-Amp Standard Triacs | 8 | 800 | 80 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| BTA08-800C | TO-220AB Ins | 8-Amp Standard Triacs | 8 | 800 | 80 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| BTB08-800CW | TO-220AB | 8-Amp Snubberless™ Triacs | 8 | 800 | 80 | 125 | I, II, III | 35, 35, 35 | 4.5 | 400 |
| BTA08-800CW | TO-220AB Ins | 8-Amp Snubberless™ Triacs | 8 | 800 | 80 | 125 | I, II, III | 35, 35, 35 | 4.5 | 400 |
| T835-800B | DPAK | 8-Amp Snubberless™ Triacs | 8 | 800 | 80 | 125 | I, II, III | 35, 35, 35 | 4.5 | 400 |
| BTB08-800BW | TO-220AB | 8-Amp Snubberless™ Triacs | 8 | 800 | 80 | 125 | I, II, III | 50, 50, 50 | 7 | 1000 |
| BTA08-800BW | TO-220AB Ins | 8-Amp Logic Level Triacs | 8 | 800 | 80 | 125 | I, II, III | 50, 50, 50 | 7 | 1000 |
| BTB08-800B | TO-220AB | 8-Amp Standard Triacs | 8 | 800 | 80 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |
| BTA08-800B | TO-220AB Ins | 8-Amp Standard Triacs | 8 | 800 | 80 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|--|--------------|----------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|-----------------------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T) | | I_{GT} (I, II, III, IV) | (di/dt) _c (@T _j max) | dV/dt (@T _j max) |
| 10 A Standard, Logic Level and Snubberless™ Triacs | | | | | | | | | | |
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| BTB10-600C | T0-220AB | 10-Amp Standard Triacs | 10 | 600 | 100 | 125 | I, II, III, IV | 25, 25, 25, 50 | 4.4 ⁽²⁾ | 200 |
| BTA10-600C | T0-220AB Ins | 10-Amp Standard Triacs | 10 | 600 | 100 | 125 | I, II, III, IV | 25, 25, 25, 50 | 4.4 ⁽²⁾ | 200 |
| BTB10-600CW | T0-220AB | 10-Amp Snubberless™ Triacs | 10 | 600 | 100 | 125 | I, II, III | 35, 35, 35 | 5.5 | 1000 |
| BTA10-600CW | T0-220AB Ins | 10-Amp Snubberless™ Triacs | 10 | 600 | 100 | 125 | I, II, III | 35, 35, 35 | 5.5 | 1000 |
| BTA10-600BW | T0-220AB Ins | 10-Amp Snubberless™ Triacs | 10 | 600 | 100 | 125 | I, II, III | 50, 50, 50 | 9 | 1000 |
| BTB10-600BW | T0-220AB | 10-Amp Snubberless™ Triacs | 10 | 600 | 100 | 125 | I, II, III | 50, 50, 50 | 9 | 1000 |
| BTB10-600B | T0-220AB | 10-Amp Standard Triacs | 10 | 600 | 100 | 125 | I, II, III, IV | 50, 50, 50, 100 | 4.4 ⁽²⁾ | 400 |
| BTA10-600B | T0-220AB Ins | 10-Amp Standard Triacs | 10 | 600 | 100 | 125 | I, II, III, IV | 50, 50, 50, 100 | 4.4 ⁽²⁾ | 400 |
| BTA10-600GP | T0-220AB Ins | 10-Amp Standard Triacs | 10 | 600 | 120 | 125 | I, II, III, IV | 25, 25, 25, 100 | 2.2 | 30 |
| BTB10-800C | T0-220AB | 10-Amp Standard Triacs | 10 | 800 | 100 | 125 | I, II, III, IV | 25, 25, 25, 50 | 4.4 ⁽²⁾ | 200 |
| BTA10-800C | T0-220AB Ins | 10-Amp Standard Triacs | 10 | 800 | 100 | 125 | I, II, III, IV | 25, 25, 25, 50 | 4.4 ⁽²⁾ | 200 |
| BTB10-800CW | T0-220AB | 10-Amp Snubberless™ Triacs | 10 | 800 | 100 | 125 | I, II, III | 35, 35, 35 | 5.5 | 1000 |
| BTA10-800CW | T0-220AB Ins | 10-Amp Snubberless™ Triacs | 10 | 800 | 100 | 125 | I, II, III | 35, 35, 35 | 5.5 | 1000 |
| BTB10-800BW | T0-220AB | 10-Amp Snubberless™ Triacs | 10 | 800 | 100 | 125 | I, II, III | 50, 50, 50 | 9 | 1000 |
| BTA10-800BW | T0-220AB Ins | 10-Amp Snubberless™ Triacs | 10 | 800 | 100 | 125 | I, II, III | 50, 50, 50 | 9 | 1000 |
| BTB10-800B | T0-220AB | 10-Amp Standard Triacs | 10 | 800 | 100 | 125 | I, II, III, IV | 50, 50, 50, 100 | 4.4 ⁽²⁾ | 400 |
| BTA10-800B | T0-220AB Ins | 10-Amp Standard Triacs | 10 | 800 | 100 | 125 | I, II, III, IV | 50, 50, 50, 100 | 4.4 ⁽²⁾ | 400 |
| 12 A Standard, Logic Level and Snubberless™ Triacs | | | | | | | | | | |
| BTB12-600TW | T0-220AB | 12-Amp Logic Level Triacs | 12 | 600 | 120 | 125 | I, II, III | 5, 5, 5 | 1 ⁽¹⁾ | 20 |
| BTA12-600TW | T0-220AB Ins | 12-Amp Logic Level Triacs | 12 | 600 | 120 | 125 | I, II, III | 5, 5, 5 | 1 ⁽¹⁾ | 20 |
| BTA12-600SW | T0-220AB Ins | 12-Amp Logic Level Triacs | 12 | 600 | 120 | 125 | I, II, III | 10, 10, 10 | 2.9 ⁽¹⁾ | 40 |
| BTB12-600SW | T0-220AB | 12-Amp Logic Level Triacs | 12 | 600 | 120 | 125 | I, II, III | 10, 10, 10 | 2.9 ⁽¹⁾ | 40 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|--------------------|--------------------|----------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|----------------------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T) | | I_{GT} (I, II, III, IV) | (di/dt) _c (@T _j max) | (@T _j max) |
| | | | max (A) | max (V) | max (A) | max (°C) | | | | min (V/μs) |
| BTB12-600C | TO-220AB | 12-Amp Standard Triacs | 12 | 600 | 120 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| BTA12-600C | TO-220AB Ins | 12-Amp Standard Triacs | 12 | 600 | 120 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| T1235-600G | D ² PAK | 12-Amp Snubberless™ Triacs | 12 | 600 | 120 | 125 | I, II, III | 35, 35, 35 | 6.5 | 500 |
| BTB12-600CW | TO-220AB | 12-Amp Snubberless™ Triacs | 12 | 600 | 120 | 125 | I, II, III | 35, 35, 35 | 6.5 | 500 |
| BTA12-600CW | TO-220AB Ins | 12-Amp Snubberless™ Triacs | 12 | 600 | 120 | 125 | I, II, III | 35, 35, 35 | 6.5 | 500 |
| T1250-600G | D ² PAK | 12-Amp Snubberless™ Triacs | 12 | 600 | 120 | 125 | I, II, III | 50, 50, 50 | 12 | 1000 |
| BTB12-600BW | TO-220AB | 12-Amp Snubberless™ Triacs | 12 | 600 | 120 | 125 | I, II, III | 50, 50, 50 | 12 | 1000 |
| BTA12-600BW | TO-220AB Ins | 12-Amp Snubberless™ Triacs | 12 | 600 | 120 | 125 | I, II, III | 50, 50, 50 | 12 | 1000 |
| BTB12-600B | TO-220AB | 12-Amp Standard Triacs | 12 | 600 | 120 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |
| BTA12-600B | TO-220AB Ins | 12-Amp Standard Triacs | 12 | 600 | 120 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |
| BTB12-800TW | TO-220AB | 12-Amp Logic Level Triacs | 12 | 800 | 120 | 125 | I, II, III | 5, 5, 5 | 1 ⁽¹⁾ | 20 |
| BTA12-800TW | TO-220AB Ins | 12-Amp Logic Level Triacs | 12 | 800 | 120 | 125 | I, II, III | 5, 5, 5 | 1 ⁽¹⁾ | 20 |
| T1210-800G | D ² PAK | 12-Amp Snubberless™ Triacs | 12 | 800 | 120 | 125 | I, II, III | 10, 10, 10 | 2.9 | 40 |
| BTB12-800SW | TO-220AB | 12-Amp Logic Level Triacs | 12 | 800 | 120 | 125 | I, II, III | 10, 10, 10 | 2.9 ⁽¹⁾ | 40 |
| BTA12-800SW | TO-220AB Ins | 12-Amp Logic Level Triacs | 12 | 800 | 120 | 125 | I, II, III | 10, 10, 10 | 2.9 ⁽¹⁾ | 40 |
| BTB12-800C | TO-220AB | 12-Amp Standard Triacs | 12 | 800 | 120 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| BTA12-800C | TO-220AB Ins | 12-Amp Standard Triacs | 12 | 800 | 120 | 125 | I, II, III, IV | 25, 25, 25, 50 | 5.3 ⁽²⁾ | 200 |
| BTB12-800CW | TO-220AB | 12-Amp Snubberless™ Triacs | 12 | 800 | 120 | 125 | I, II, III | 35, 35, 35 | 6.5 | 500 |
| BTA12-800CW | TO-220AB Ins | 12-Amp Snubberless™ Triacs | 12 | 800 | 120 | 125 | I, II, III | 35, 35, 35 | 6.5 | 500 |
| T1235-800G | D ² PAK | 12-Amp Snubberless™ Triacs | 12 | 800 | 120 | 125 | I, II, III | 35, 35, 35 | 6.5 | 500 |
| BTB12-800BW | TO-220AB | 12-Amp Snubberless™ Triacs | 12 | 800 | 120 | 125 | I, II, III | 50, 50, 50 | 12 | 1000 |
| BTA12-800BW | TO-220AB Ins | 12-Amp Snubberless™ Triacs | 12 | 800 | 120 | 125 | I, II, III | 50, 50, 50 | 12 | 1000 |
| BTB12-800B | TO-220AB | 12-Amp Standard Triacs | 12 | 800 | 120 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|---|--------------------|----------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|----------------------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T) | | I_{GT} (I, II, III, IV) | (dI/dt) _c (@T _J max) | (@T _J max) |
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| BTA12-800B | TO-220AB Ins | 12-Amp Standard Triacs | 12 | 800 | 120 | 125 | I, II, III, IV | 50, 50, 50, 100 | 5.3 ⁽¹⁾ | 400 |
| 16 A Standard, Logic Level and Snubberless™ Triacs | | | | | | | | | | |
| BTB16-600SW | TO-220AB | 16-Amp Logic Level Triacs | 16 | 600 | 160 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| BTA16-600SW | TO-220AB Ins | 16-Amp Logic Level Triacs | 16 | 600 | 160 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| T1610-600G | D ² PAK | 16-Amp Logic Level Triacs | 16 | 600 | 160 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| BTB16-600C | TO-220AB | 16-Amp Standard Triacs | 16 | 600 | 160 | 125 | I, II, III, IV | 25, 25, 25, 50 | 7 ⁽²⁾ | 200 |
| BTA16-600C | TO-220AB Ins | 16-Amp Standard Triacs | 16 | 600 | 160 | 125 | I, II, III, IV | 25, 25, 25, 50 | 7 ⁽²⁾ | 200 |
| BTB16-600CW | TO-220AB | 16-Amp Snubberless™ Triacs | 16 | 600 | 160 | 125 | I, II, III | 35, 35, 35 | 8.5 | 500 |
| BTA16-600CW | TO-220AB Ins | 16-Amp Snubberless™ Triacs | 16 | 600 | 160 | 125 | I, II, III | 35, 35, 35 | 8.5 | 500 |
| T1635-600G | D ² PAK | 16-Amp Snubberless™ Triacs | 16 | 600 | 160 | 125 | I, II, III | 35, 35, 35 | 8.5 | 500 |
| T1650-600G | D ² PAK | 16-Amp Snubberless™ Triacs | 16 | 600 | 160 | 125 | I, II, III | 50, 50, 50 | 14 | 1000 |
| BTB16-600BW | TO-220AB | 16-Amp Snubberless™ Triacs | 16 | 600 | 160 | 125 | I, II, III | 50, 50, 50 | 14 | 1000 |
| BTA16-600BW | TO-220AB Ins | 16-Amp Snubberless™ Triacs | 16 | 600 | 160 | 125 | I, II, III | 50, 50, 50 | 14 | 1000 |
| BTB16-600B | TO-220AB | 16-Amp Standard Triacs | 16 | 600 | 160 | 125 | I, II, III, IV | 50, 50, 50, 100 | 7 ⁽¹⁾ | 400 |
| BTA16-600B | TO-220AB Ins | 16-Amp Standard Triacs | 16 | 600 | 160 | 125 | I, II, III, IV | 50, 50, 50, 100 | 7 ⁽¹⁾ | 400 |
| T1610-800G | D ² PAK | 16-Amp Logic Level Triacs | 16 | 800 | 160 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| BTB16-800SW | TO-220AB | 16-Amp Logic Level Triacs | 16 | 800 | 160 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| BTA16-800SW | TO-220AB Ins | 16-Amp Logic Level Triacs | 16 | 800 | 160 | 125 | I, II, III | 10, 10, 10 | 3 ⁽¹⁾ | 40 |
| T1635-800G | D ² PAK | 16-Amp Snubberless™ Triacs | 16 | 800 | 160 | 125 | I, II, III | 35, 35, 35 | 8.5 | 500 |
| BTB16-800CW | TO-220AB | 16-Amp Snubberless™ Triacs | 16 | 800 | 160 | 125 | I, II, III | 35, 35, 35 | 8.5 | 500 |
| BTA16-800CW | TO-220AB Ins | 16-Amp Snubberless™ Triacs | 16 | 800 | 160 | 125 | I, II, III | 35, 35, 35 | 8.5 | 500 |
| BTB16-800BW | TO-220AB | 16-Amp Snubberless™ Triacs | 16 | 800 | 160 | 125 | I, II, III | 50, 50, 50 | 14 | 1000 |
| BTA16-800BW | TO-220AB Ins | 16-Amp Snubberless™ Triacs | 16 | 800 | 160 | 125 | I, II, III | 50, 50, 50 | 14 | 1000 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage |
|--|--------------|----------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|----------------------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T) | | I_{GT} (I, II, III, IV) | (di/dt) _c (@T _j max) | (@T _j max) |
| | | | max (A) | max (V) | max (A) | max (°C) | | max (mA) | min (A/ms) | min (V/μs) |
| BTB16-800B | T0-220AB | 16-Amp Standard Triacs | 16 | 800 | 160 | 125 | I, II, III, IV | 50, 50, 50, 100 | 7 ⁽¹⁾ | 400 |
| BTA16-800B | T0-220AB Ins | 16-Amp Standard Triacs | 16 | 800 | 160 | 125 | I, II, III, IV | 50, 50, 50, 100 | 7 ⁽¹⁾ | 400 |
| 20 A Snubberless™ Triacs | | | | | | | | | | |
| BTA20-600CWRG | T0-220AB Ins | 20-Amp Snubberless™ Triacs | 20 | 600 | 200 | 125 | I, II, III | 35, 35, 35 | 20 ⁽¹⁾ | 250 |
| BTA20-700CWRG | T0-220AB Ins | 20-Amp Snubberless™ Triacs | 20 | 700 | 200 | 125 | I, II, III | 35, 35, 35 | 20 ⁽¹⁾ | 250 |
| BTA20-700BWRG | T0-220AB Ins | 20-Amp Snubberless™ Triacs | 20 | 700 | 200 | 125 | I, II, III | 50, 50, 50 | 20 | 500 |
| 25 A Standard and Snubberless™ Triacs | | | | | | | | | | |
| BTA25-600CWRG | RD-91 | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTB24-600CWRG | T0-220AB | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTA24-600CWRG | T0-220AB Ins | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTA26-600CWRG | TOP 3 ISOL | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTA24-600BWRG | T0-220AB Ins | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 |
| BTA25-600BWRG | RD-91 | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 |
| BTB24-600BWRG | T0-220AB | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 |
| BTA26-600BWRG | TOP 3 ISOL | 25-Amp Snubberless™ Triacs | 25 | 600 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 |
| BTA25-600BRG | RD-91 | 25-Amp Standard Triacs | 25 | 600 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 |
| BTB24-600BRG | T0-220AB | 25-Amp Standard Triacs | 25 | 600 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 |
| BTB26-600BRG | TOP 3 | 25-Amp Standard Triacs | 25 | 600 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 |
| BTA26-600BRG | TOP 3 ISOL | 25-Amp Standard Triacs | 25 | 600 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 |
| T2535-800G | D2PAK | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTA25-800CWRG | RD-91 | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTB24-800CWRG | T0-220AB | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |
| BTA24-800CWRG | T0-220AB Ins | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 |

STANDARD AND SNUBBERLESS™ TRIACS, 4 A - 40 A

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage | |
|-----------------------------|--|----------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|-----------------------------|------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T) | | I_{GT} (I, II, III, IV) | (dI/dt) _c (@T _j max) | dV/dt (@T _j max) | |
| | | | max (A) | max (V) | max (A) | max (°C) | | | | min (A/ms) | min (V/μs) |
| BTA26-800CWRG | TOP 3 ISOL | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 35, 35, 35 | 13 | 500 | |
| BTA25-800BWRG | RD-91 | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 | |
| BTB24-800BWRG | T0-220AB | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 | |
| BTA24-800BWRG | T0-220AB Ins | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 | |
| BTA26-800BWRG | TOP 3 ISOL | 25-Amp Snubberless™ Triacs | 25 | 800 | 250 | 125 | I, II, III | 50, 50, 50 | 22 | 1000 | |
| BTA25-800BRG | RD-91 | 25-Amp Standard Triacs | 25 | 800 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 | |
| BTB24-800BRG | T0-220AB | 25-Amp Standard Triacs | 25 | 800 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 | |
| BTB26-800BRG | TOP 3 | 25-Amp Standard Triacs | 25 | 800 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 | |
| BTA26-800BRG | TOP 3 ISOL | 25-Amp Standard Triacs | 25 | 800 | 250 | 125 | I, II, III, IV | 50, 50, 50, 100 | 13 ⁽¹⁾ | 500 | |
| T2550-12 | T0-220AB, D ² PAK, T0-220AB ins | 25-Amp Snubberless™ Triacs | 25 | 1200 | 240 | 125 | I, II, III | 50, 50, 50 | 20 | 2500 | |
| 40 A Standard Triacs | | | | | | | | | | | |
| BTA40 | RD-91 | 40-Amp Standard Triacs | 40 | 800 | 400 | 125 | I, II, III, IV | 50, 50, 50, 100 | 20 ⁽¹⁾ | 500 | |
| BTB41 | TOP 3 | 40-Amp Standard Triacs | 40 | 800 | 400 | 125 | I, II, III, IV | 50, 50, 50, 100 | 20 ⁽¹⁾ | 500 | |
| BTA41 | TOP 3 ISOL | 40-Amp Standard Triacs | 40 | 800 | 400 | 125 | I, II, III, IV | 50, 50, 50, 100 | 20 ⁽¹⁾ | 500 | |

Notes: (1) parameter at 5 V/μs, (2) parameter at 10 V/μs

1200 V TRIACS, SNUBBERLESS™ HIGH VOLTAGE TRIACS

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Triggering gate current | Rate of decrease of commutating on-state current | Rising rate of off voltage | |
|-----------------|--|----------------------------|----------------------|-----------------------------------|--|----------------------|----------------------|---------------------------|--|----------------------------|------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T_J) | | I_{GT} (I, II, III, IV) | (di/dt) _c (@ T_J max) | dV/dt (@ T_J max) | |
| | | | max (A) | max (V) | max (A) | max (°C) | | | | min (A/ms) | min (V/μs) |
| TXDVxx12 | TO-220AB Ins | 12-Amp high voltage Triacs | 12 | 1200 | 120 | 125 | I, II, III | 100,100,100 | 30 | 200 | |
| T2550-12 | TO-220AB, D ² PAK, TO-220AB Ins | 25-Amp high voltage Triacs | 25 | 1200 | 240 | 125 | I, II, III | 50, 50, 50 | 20 | 2500 | |
| TPDVxx25 | TOP 3 Ins | 25-Amp high voltage Triacs | 25 | 1200 | 230 | 125 | I, II, III | 150,150,150 | 20 | 500 | |
| TPDVxx40 | TOP 3 Ins | 40-Amp high voltage Triacs | 40 | 1200 | 350 | 125 | I, II, III | 200,200,200 | 35 | 500 | |

AUTOMATIC VOLTAGE SWITCHES

| Part number | Package | General description | RMS on-state current | Repetitive peak off-state voltage | Non repetitive surge peak on-state current | Junction temperature | Triggering quadrants | Rate of decrease of commutating on-state current | Rising rate of off voltage | |
|----------------|----------|---|----------------------|-----------------------------------|--|----------------------|----------------------|--|----------------------------|------------|
| | | | $I_{T(RMS)}$ | V_{DRM}/V_{RRM} | I_{TSM} | (T_J) | | (di/dt) _c (@ T_J max) | dV/dt (@ T_J max) | |
| | | | max (A) | max (V) | max (A) | max (°C) | | | min (A/ms) | min (V/μs) |
| AVS08CB | TO-220AB | Automatic voltage switch (SMPS < 200 W) | 8 | 500 | 65 | 125 | I, II, III | 100 | - | |
| AVS10CB | TO-220AB | Automatic voltage switch (SMPS < 300 W) | 8 | 600 | 80 | 125 | I, II, III | 100 | 50 | |
| AVS12CB | TO-220AB | Automatic voltage switch (SMPS < 500 W) | 12 | 600 | 100 | 125 | I, II, III | 100 | 50 | |

TRIGGER DIODES

| Part number | Package | Description | Breakover voltage (V _{BO}) | |
|-------------|----------|-------------|--------------------------------------|---------|
| | | | min (V) | max (V) |
| DB3 | DO-35 | DIAC | 28 | 36 |
| DB3TG | DO-35 | DIAC | 30 | 34 |
| DB4 | DO-35 | DIAC | 35 | 45 |
| SMDB3 | SOT-23 | DIAC | 28 | 36 |
| TMMDB3 | MINIMELF | DIAC | 28 | 36 |
| TMMDB3TG | MINIMELF | DIAC | 30 | 34 |



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