THE DATASHEET OF

TL216

S.S.R.

TL Series

DC Intput & AC Output 8A/16A

Features

- High isolation voltage 4000 VAC between input and output
- 600VDC peak blocking Voltage
- Be suitable for 110/220VAC power voltage
- Random-on & Zero-on types are available
- UL Recognized

Applications

- Household appliance
- Programmable controller

Order Code:

TL 2 16 R - X
a b c d e

a : Model : TL = SIP 4 Pin Package
b : Output Voltage : 2 = 240VAC
c : Output Current : 08 = 8Amp ; 16 = 16Amp
d : Turn - on Type : Nil = Zero on ; R = Random - on
e : Option : Nil = Standard, 1-9 = Special code

Absolate Maximum Rating:

Items		Symbol	Rating		Unit
			TL208(R)	TL216(R)	
Input	Forward Current	I_F	50		mA
	Peak Forward Current	I_{FP}	1		A
	Reverse Voltage	V_R	6		VAC
Output	Maximun Load Voltage	V_{omax}	280		VAC
	Off-state Output Voltage	V_{DRM}	600		VDC
	On-state Output Current	$I_{T(RMS)}$	8	16	A
	Non-repeatitive Sutge Current	I_{TSM}	80	160	A
I/O Isolation Voltage		V_{iso}	4000		VAC
Operating Temperature		T_{opr}	-25~+100		℃
Storage Temperature		T_{stg}	-35~+125		℃

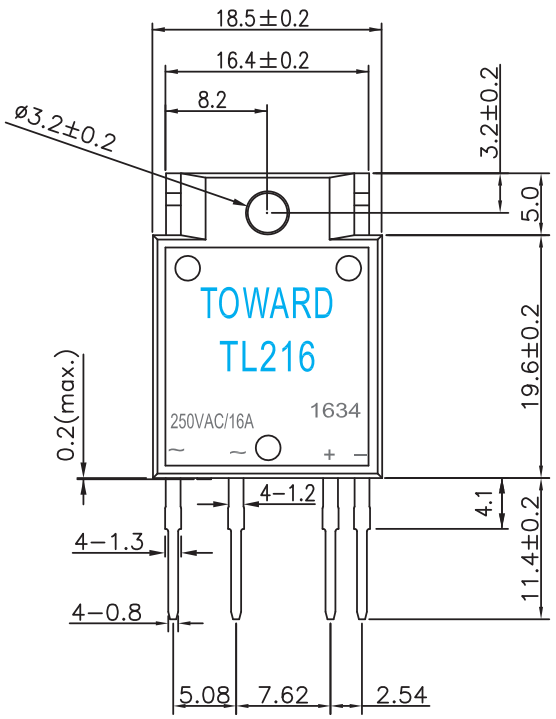
Electrical Characteristics:

Items		Symbol	MIN.	TYP.	MAX.	Unit	Conditions
Input	Forward Voltage	V_F	-	1.18	1.4	V	I_F=10mA
	Reverse Current	I_R	-	-	10	μA	V_R=5V
Output	Leakage Voltage Range	V_O	35	-	280	VAC	
	Peak Leakage Current	I_{DRM}	-	-	100	μA	V_{DRM}=600V
	On-state Voltage	V_{TM}	-	-	1.5	V	I_T=Rated IT
	Hold Current	I_H		-	50	mA	V_{DRM}=600V/$\sqrt{2}$
	Rise rate of off-state	dv/dt	30	-	-	V/μS	V_{DRM}=600V/$\sqrt{2}$
Minimum trigger current		I_{FT}	-	-	10	mA	V_D=6V
Recovery Input Voltage		VF_{OFF}	0.5	-	-	V	
I/O Isolation Resistance		R_{iso}	10^{10}	-	-	Ω	DC=500V
Turn-on Time (Random-on)		T_{ON}	-	-	1	mS	I_F=20mA
Turn-on Time (Zero-on)		T_{ON}	-	-	10	mS	-
Turn-off Time		T_{OFF}	-	-	10	mS	-

Note:Recommended trigger current is between 10mA and 20mA.

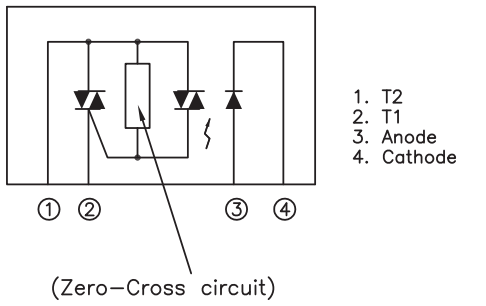
Dimensions : (Unit : mm)

Dimensions (mm)

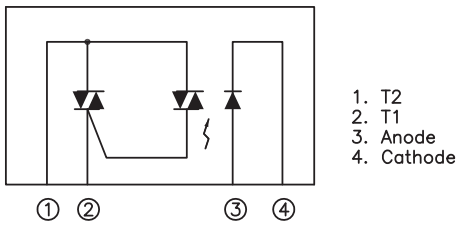


Equivalent Circuit(Top view)

Zero-On



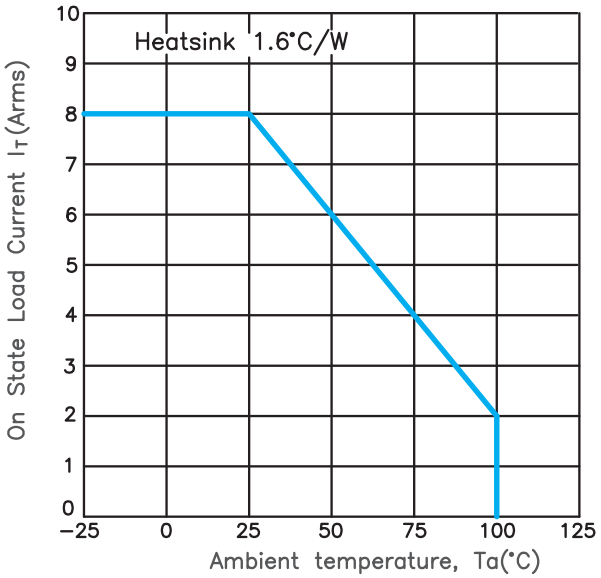
Random-On



REFERENCE DATA :

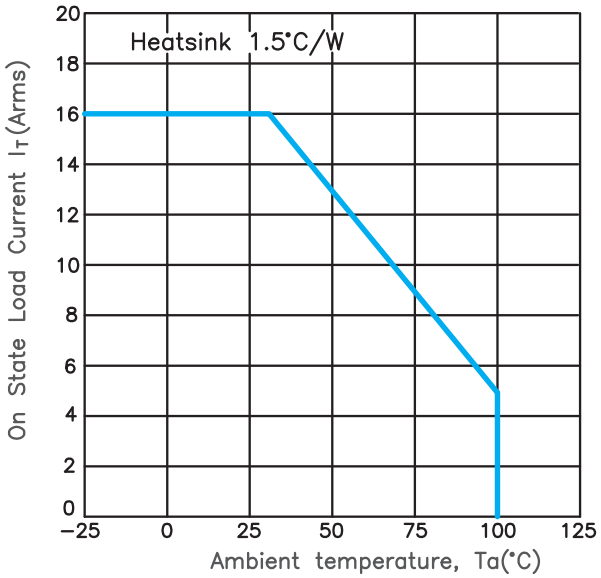
TL208

Mximun Load Current Vs. Ambient temperature

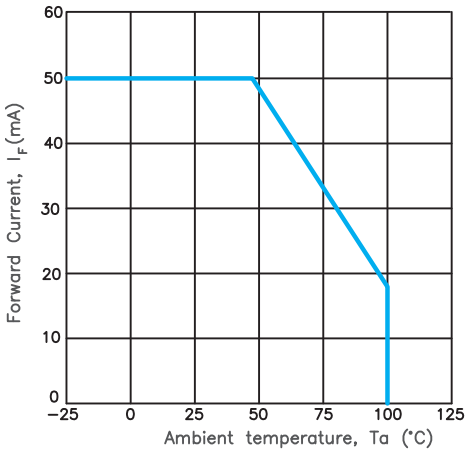


TL216

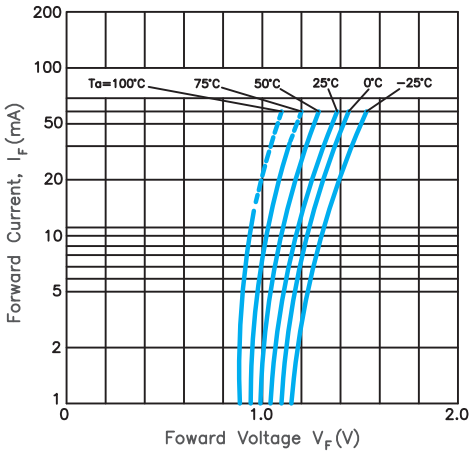
Mximun Load Current Vs. Ambient temperature



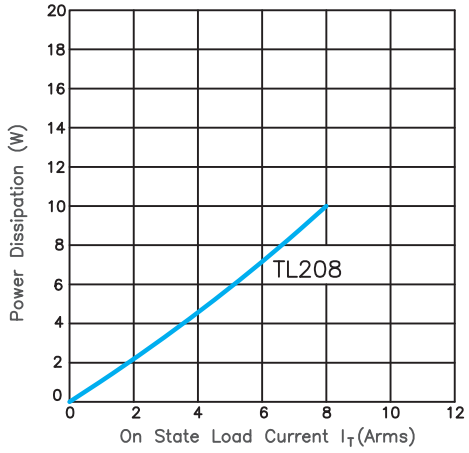
Forward Current Vs. Ambient temperature



Forward Current Vs. Forward Voltage



On State Power Dissipation Vs. On State Load Current



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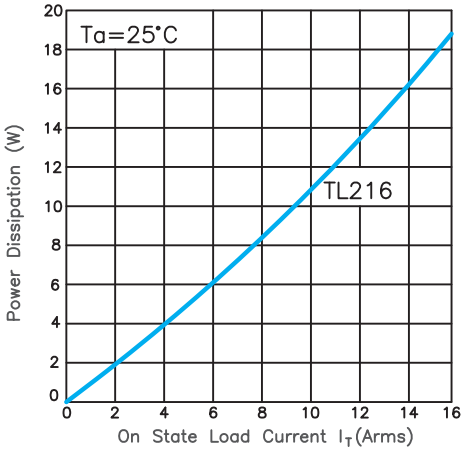
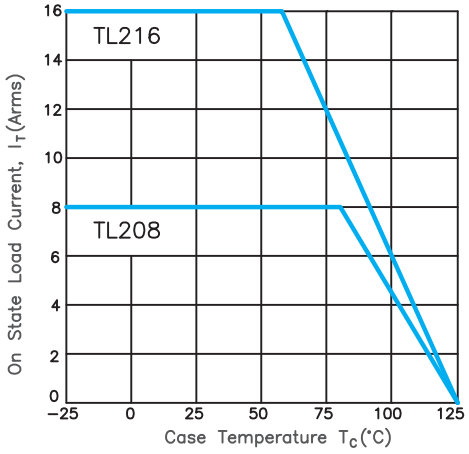
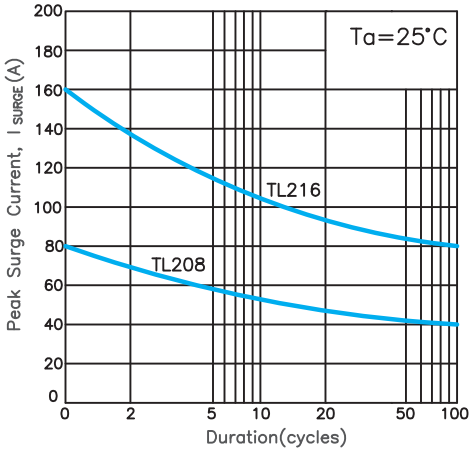


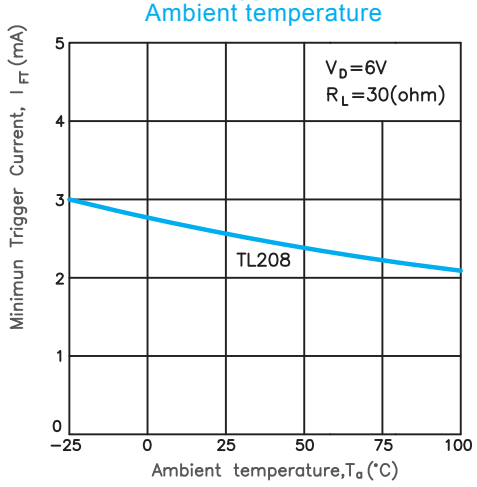
Mximun Load Current Vs. Case Temperature



Peak Surge Current V.S Duration (Non Repective)



Minimun Trigger Current Vs. Ambient temperature



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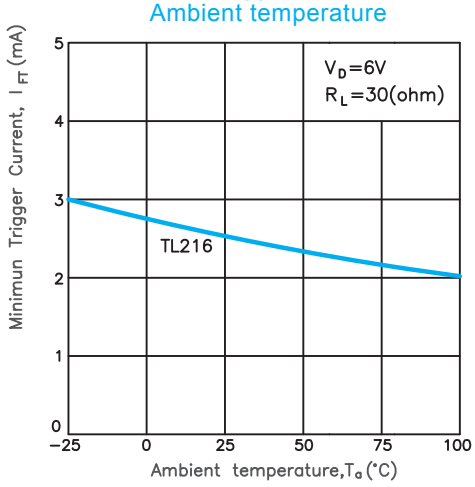
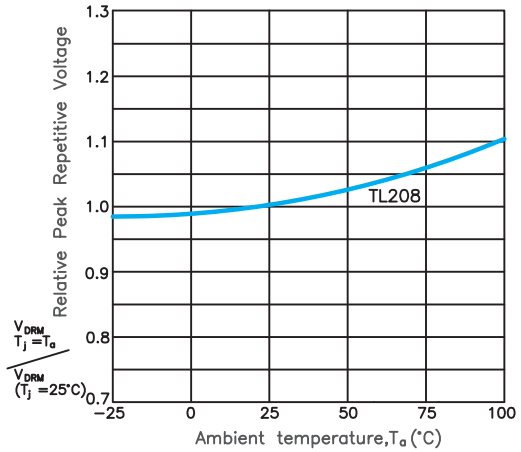
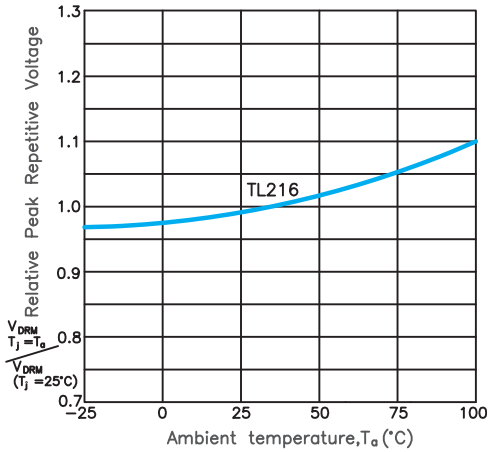


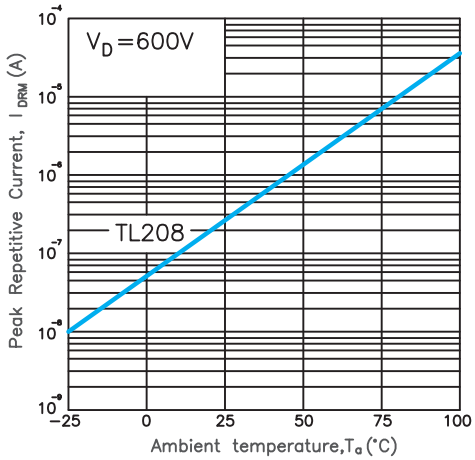
Relative Peak Repetitive Voltage Vs. Ambient Temperature



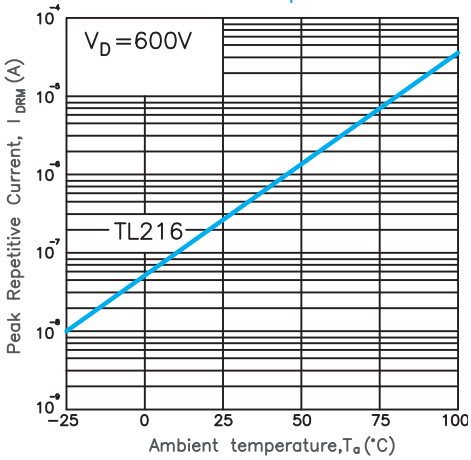
Relative Peak Repetitive Voltage Vs. Ambient Temperature



Peak Repetitive Current Vs. Ambient Temperature



Peak Repetitive Current V.S Ambient Temperature



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