THE DATASHEET OF

P3002SBRP

Ethernet/10BaseT/100BaseT/1000BaseT Protector

The DO-214AA *SIDACtor* Ethernet protection series is intended for applications sensitive to load values. Typically, high speed connections require a lower capacitance. C_O values are 40% lower than standard devices.

SIDACtor devices are used to enable equipment to meet various regulatory requirements including GR 1089, ITU K.20, K.21 and K.45, IEC 60950, UL 60950, and TIA-968-A (formerly known as FCC Part 68).

Electrical Parameters

Part Number *	V_{DRM} Volts	V_S Volts	V_T Volts	I_{DRM} µAmps	I_S mAmps	I_T Amps	I_H mAmps	C_O pF
P0220S_	15	32	4	5	800	2.2	50	50
P0642S_**	58	77	4	5	800	2.2	120	25
P0722S_**	65	88	4	5	800	2.2	120	25
P0902S_**	75	98	4	5	800	2.2	120	25
P1102S_**	90	130	4	5	800	2.2	120	20
P1302S_	120	160	4	5	800	2.2	150	20
P1402S_	140	180	4	5	800	2.2	120	20
P1502S_	140	180	4	5	800	2.2	150	20
P1802S_	170	220	4	5	800	2.2	150	15
P2302S_	190	260	4	5	800	2.2	150	15
P2602S_	220	300	4	5	800	2.2	150	15
P3002S_	280	360	4	5	800	2.2	120	15
P3502S_	320	400	4	5	800	2.2	150	15
P4802S_	440	600	4	5	800	2.2	120	15

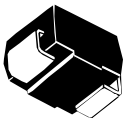
* For surge ratings, see table below.
** Contact factory for release date.

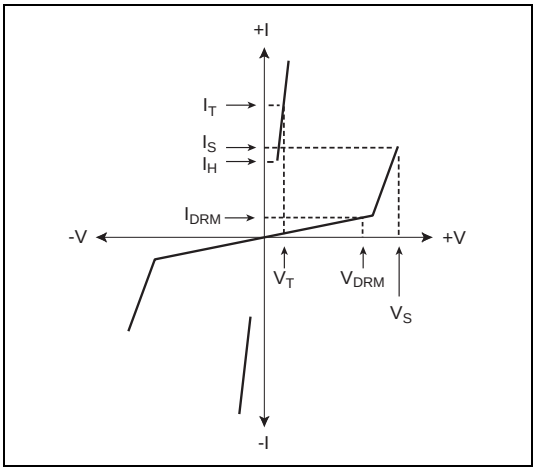
General Notes:
- All measurements are made at an ambient temperature of 25 °C. I_{PP} applies to -40 °C through +85 °C temperature range.
- I_{PP} is a repetitive surge rating and is guaranteed for the life of the product.
- Listed *SIDACtor* devices are bi-directional. All electrical parameters and surge ratings apply to forward and reverse polarities.
- V_{DRM} is measured at I_{DRM}.
- V_S is measured at 100 V/µs.
- Special voltage (V_S and V_{DRM}) and holding current (I_H) requirements are available upon request.
- Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias.

Surge Ratings

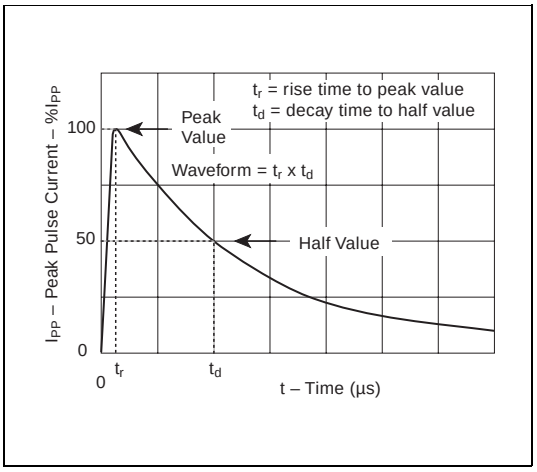
Series	I_{PP} 2x10 µs Amps	I_{PP} 8x20 µs Amps	I_{PP} 10x160 µs Amps	I_{PP} 10x560 µs Amps	I_{PP} 10x1000 µs Amps	I_{TSM} 60 Hz Amps	di/dt Amps/µs
A	150	150	90	50	45	20	500
B	250	250	150	100	80	30	500

Thermal Considerations

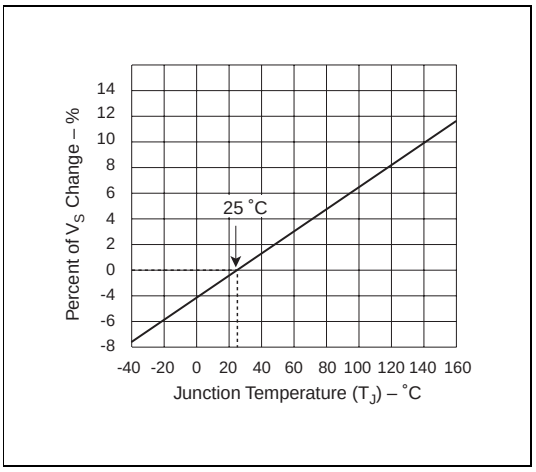
Package	Symbol	Parameter	Value	Unit
DO-214AA 	T_J	Operating Junction Temperature Range	-40 to +150	°C
	T_S	Storage Temperature Range	-65 to +150	°C
	$R_{\theta JA}$	Thermal Resistance: Junction to Ambient	90	°C/W



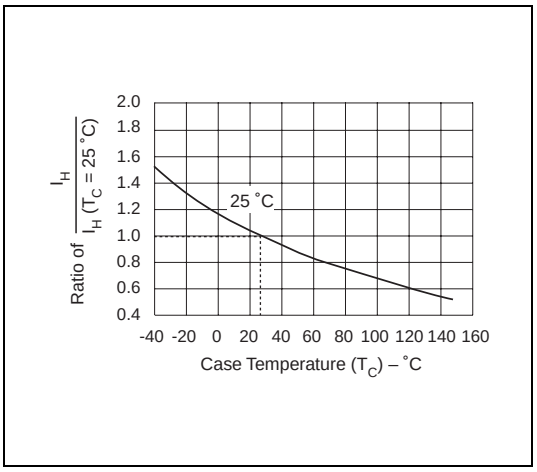
V-I Characteristics



t_r x t_d Pulse Wave-form



Normalized V_S Change versus Junction Temperature



Normalized DC Holding Current versus Case Temperature

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