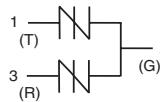


T10C SIDACtor® Device



The bi-directional T10C devices are a through-hole technology SIDACtor protector. It is intended for cost-sensitive telecommunication applications. The three-terminal configuration matches G.D.T. pin configuration; for plug-in applications, the T10C fits in the KRONE™ three-point connector block (5B).

This T10 SIDACtor series enables equipment to comply with 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).

For primary protection applications, integrated failsafe options are available.

SIDACtor Devices

Electrical Parameters

Part Number *	V _{DRM} @ 5 μA Volts	V _S Volts	V _T Volts	I _S mAmps	I _H mAmps	pF Pin 1-2 / 3-2 Tip-Ground, Ring-Ground TYP	pF Pin 1-3 Tip-Ring TYP
T10C080B	80	120	4	800	120	110	61
T10C080E	80	120	4	800	180	110	61
T10C110B	105	135	4	800	120	90	51
T10C110E	105	135	4	800	180	90	51
T10C140B	140	170	4	800	120	83	48
T10C140E	140	170	4	800	180	83	48
T10C180B	175	210	4	800	120	77	44
T10C180E	175	210	4	800	180	77	44
T10C220B	214	265	4	800	120	74	42
T10C220E	214	265	4	800	180	74	42
T10C270B	270	360	4	800	120	68	38
T10C270E	270	360	4	800	180	68	38

* For failsafe option, add "F" at end of part number. See Section 9, "Mechanical Data" for mechanical view of failsafe option.
For surge ratings, see table below.

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} across Pins 1-2 / 3-2.
- V_S is measured at 0.5 V/μs across Pins 1-2 / 3-2.
- Special voltage (V_S and V_{DRM}) and holding current (I_H) requirements are available upon request.

Surge Ratings in Amps

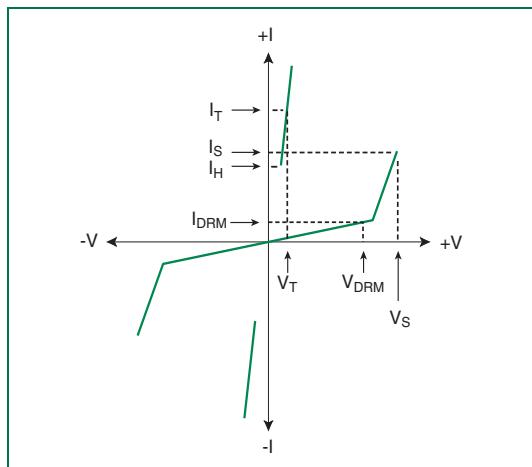
Series	I _{PP}			I _{TSM} 50 / 60 Hz	di/dt
	8x20 * 1.2x50 **	5x310 * 10x700 **	10x1000 * 10x1000 **		
	Amps	Amps	Amps		
C	250	125	100	50	100

* Current waveform in μs

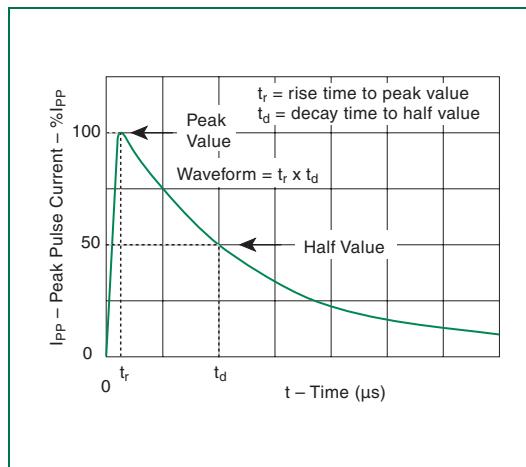
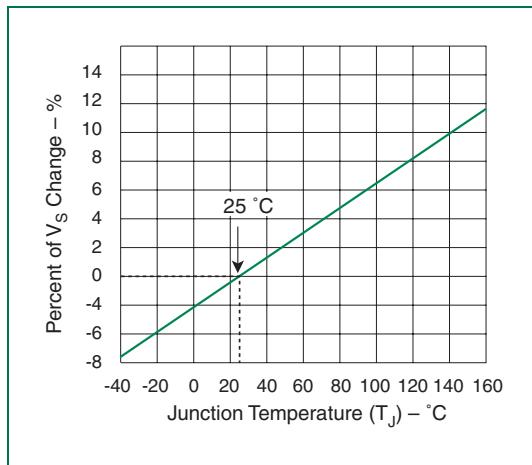
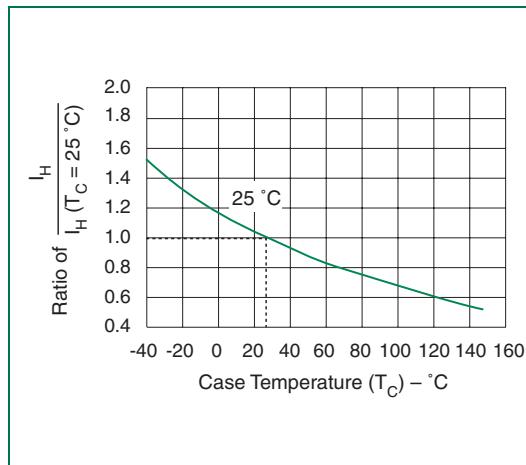
** Voltage waveform in μs

Thermal Considerations

Package [T10C]	Symbol	Parameter	Value	Unit
	T_J	Operating Junction Temperature Range	150	°C
	T_S	Storage Temperature Range	-40 to +150	°C
	$R_{\theta JA}$	Thermal Resistance: Junction to Ambient	60	°C/W



V-I Characteristics


 $t_r \times t_d$ Pulse Waveform

 Normalized V_S Change versus Junction Temperature


Normalized DC Holding Current versus Case Temperature