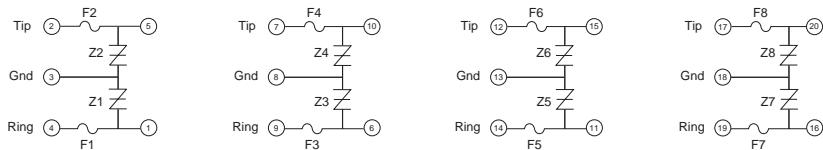


## Four-port Longitudinal Two-chip Protector

This hybrid Single In-line Package (SIP) protects four twisted pairs from overcurrent and overvoltage conditions. Comprised of eight discrete DO-214AA *SIDACtor* devices and eight *TeleLink* surface mount fuses, it is ideal for densely populated line cards that cannot afford PCB inefficiencies or the use of series power resistors. Surge current ratings up to 500 A are available.



### Electrical Parameters

Part Number *	$V_{DRM}$ Volts	$V_s$ Volts	$V_{DRM}$ Volts	$V_s$ Volts	$V_T$ Volts	$I_{DRM}$ μAmps	$I_s$ mAmps	$I_T$ Amps	$I_H$ mAmps	$C_o$ pF	Pins 2-3, 3-4
	Pins 2-3, 4-3, 7-8, 9-8, 12-13, 14-13, 17-18, 19-18										
P0602Z_	25	40	50	80	4	5	800	2.2	50	110	
P1402Z_	58	77	116	154	4	5	800	2.2	150	50	
P1602Z_	65	95	130	190	4	5	800	2.2	150	50	
P2202Z_	90	130	180	260	4	5	800	2.2	150	40	
P2702Z_	120	160	240	320	4	5	800	2.2	150	40	
P3002Z_	140	180	280	360	4	5	800	2.2	150	40	
P3602Z_	160	220	320	440	4	5	800	2.2	150	40	
P4202Z_	190	250	380	500	4	5	800	2.2	150	30	
P4802Z_	220	300	440	600	4	5	800	2.2	150	30	
P6002Z	275	350	550	700	4	5	800	2.2	150	30	

\* For individual "ZA," "ZB," and "ZC" surge ratings, see table below.

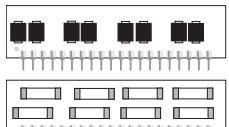
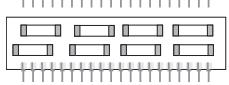
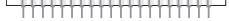
### General Notes:

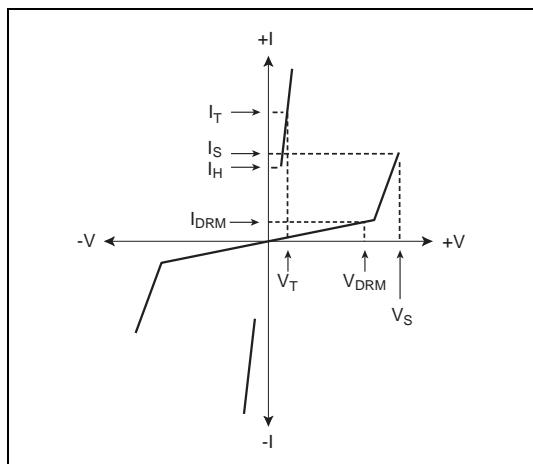
- All measurements are made at an ambient temperature of 25 °C.  $I_{PP}$  applies to -40 °C through +85 °C temperature range.
- $I_{PP}$  is a repetitive surge rating and is guaranteed for the life of the product.
- Listed *SIDACtor* devices are bi-directional. All electrical parameters and surge ratings apply to forward and reverse polarities.
- $V_{DRM}$  is measured at  $I_{DRM}$ .
- $V_s$  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 is measured between Pins 4-3 and Pins 2-3 at 1 MHz with a 2 V bias and is a typical value for "ZA" product. "ZB" and "ZC" capacitance is approximately 2x higher.
- Device is designed to meet balance requirements of GTS 8700 and GR 974.
- Lower capacitance MC versions may be available. Contact factory for further information.

### Surge Ratings

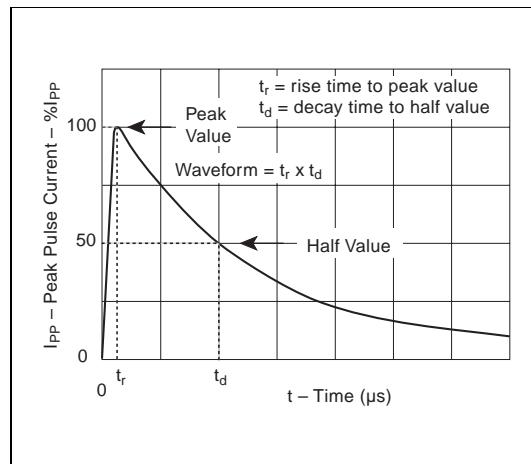
Series	$I_{PP}$ 2x10 μs Amps	$I_{PP}$ 8x20 μs Amps	$I_{PP}$ 10x160 μs Amps	$I_{PP}$ 10x560 μs Amps	$I_{PP}$ 10x1000 μs Amps	$I_{TSM}$ 60 Hz Amps	$di/dt$ Amps/μs
A	150	150	90	50	45	20	500
B	250	250	150	100	80	30	500
C	500	400	200	150	100	50	500

## Thermal Considerations

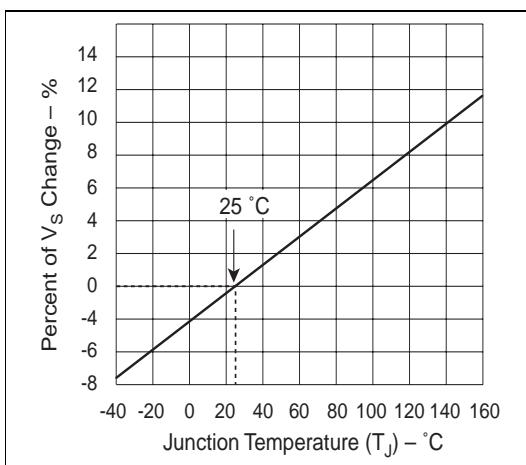
Package	Symbol	Parameter	Value	Unit
SIP		Operating Junction Temperature Range	-40 to +150	°C
		Storage Temperature Range	-65 to +150	°C
		Thermal Resistance: Junction to Ambient	90	°C/W



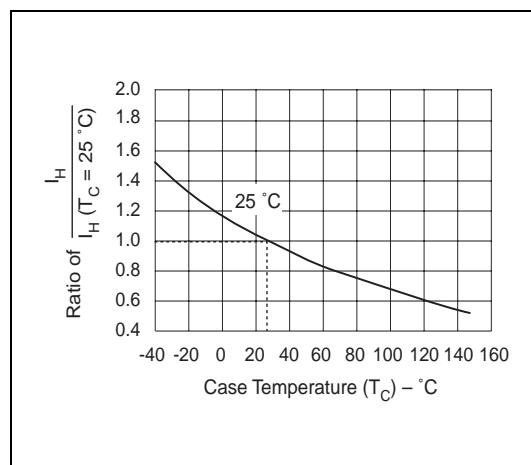
V-I Characteristics



t\_r x t\_d Pulse Waveform



Normalized VS Change versus Junction Temperature



Normalized DC Holding Current versus Case Temperature