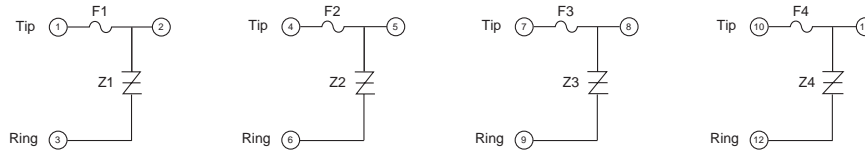


## Four-port Metallic Line Protector

The four-port hybrid Single In-line Package (SIP) line protector protects multiple twisted pair from overcurrent and overvoltage conditions. Based on a SIP, it is equivalent to four discrete DO-214AA *SIDACTor* devices and four surface mount fuses. Available in surge current ratings up to 500 A, this four-port SIP line protector is ideal for densely populated line cards that cannot afford PCB inefficiencies or the use of series power resistors.



### Electrical Parameters

Part Number *	V <sub>DRM</sub> Volts	V <sub>S</sub> Volts	V <sub>T</sub> Volts	I <sub>DRM</sub> $\mu$ Amps	I <sub>S</sub> mAmps	I <sub>T</sub> Amps	I <sub>H</sub> mAmps	C <sub>O</sub> pF
P0080Z_	6	25	4	5	800	2.2	50	100
P0300Z_	25	40	4	5	800	2.2	50	110
P0640Z_	58	77	4	5	800	2.2	150	50
P0720Z_	65	88	4	5	800	2.2	150	50
P0900Z_	75	98	4	5	800	2.2	150	50
P1100Z_	90	130	4	5	800	2.2	150	40
P1300Z_	120	160	4	5	800	2.2	150	40
P1500Z_	140	180	4	5	800	2.2	150	40
P1800Z_	170	220	4	5	800	2.2	150	30
P2300Z_	190	260	4	5	800	2.2	150	30
P2600Z_	220	300	4	5	800	2.2	150	30
P3100Z_	275	350	4	5	800	2.2	150	30
P3500Z_	320	400	4	5	800	2.2	150	30

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

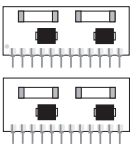
#### General Notes:

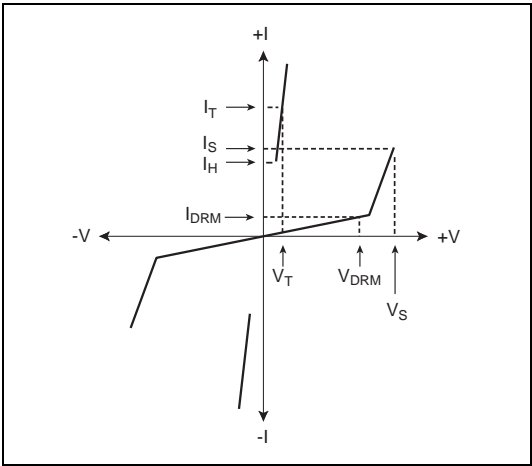
- All measurements are made at an ambient temperature of 25 °C. I<sub>PP</sub> applies to -40 °C through +85 °C temperature range.
- I<sub>PP</sub> is a repetitive surge rating and is guaranteed for the life of the product.
- Listed *SIDACTor* devices are bi-directional. All electrical parameters and surge ratings apply to forward and reverse polarities.
- V<sub>DRM</sub> is measured at I<sub>DRM</sub>.
- V<sub>S</sub> is measured at 100 V/ $\mu$ s.
- Special voltage (V<sub>S</sub> and V<sub>DRM</sub>) and holding current (I<sub>H</sub>) requirements are available upon request.
- Off-state capacitance (C<sub>O</sub>) is measured at 1 MHz with a 2 V bias and is a typical value for "ZA" and "ZB" product. "ZC" capacitance is approximately 2x the listed value.
- Lower capacitance MC versions may be available. Contact factory for further information.

### Surge Ratings

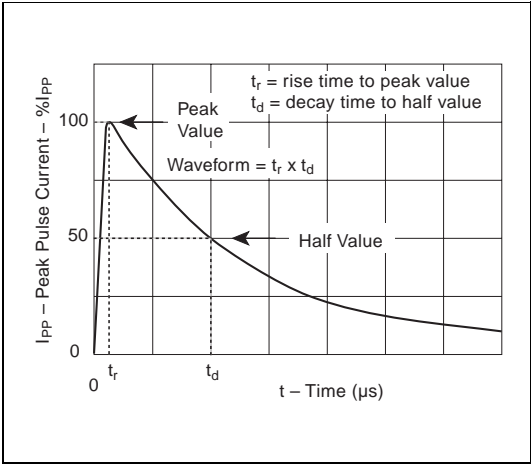
Series	I <sub>PP</sub> 2x10 $\mu$ s Amps	I <sub>PP</sub> 8x20 $\mu$ s Amps	I <sub>PP</sub> 10x160 $\mu$ s Amps	I <sub>PP</sub> 10x560 $\mu$ s Amps	I <sub>PP</sub> 10x1000 $\mu$ s Amps	I <sub>TSM</sub> 60 Hz Amps	di/dt Amps/ $\mu$ s
A	150	150	90	50	45	20	500
B	250	250	150	100	80	30	500
C	500	400	200	150	100	50	500

Thermal Considerations

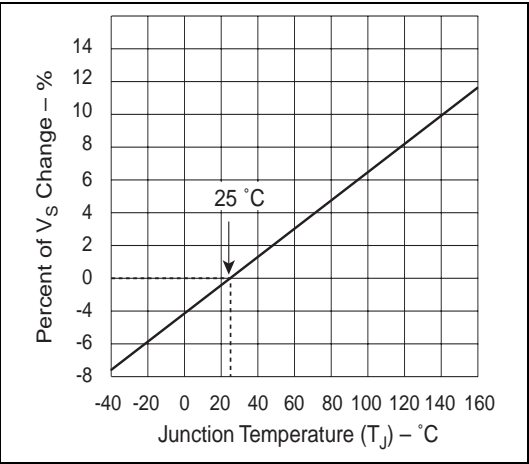
Package	Symbol	Parameter	Value	Unit
	$T_J$	Operating Junction Temperature Range	-40 to +150	$^{\circ}\text{C}$
	$T_S$	Storage Temperature Range	-65 to +150	$^{\circ}\text{C}$
	$R_{\theta JA}$	Thermal Resistance: Junction to Ambient	90	$^{\circ}\text{C/W}$



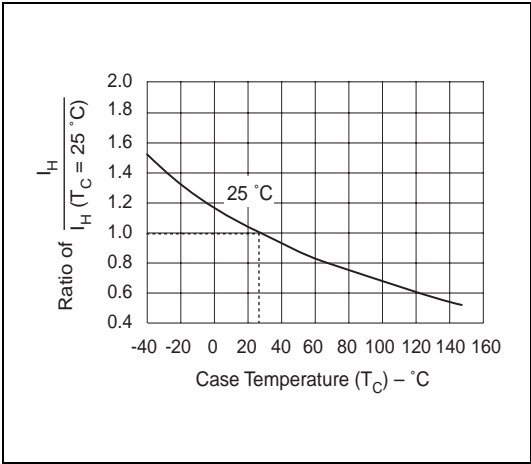
V-I Characteristics



$t_r \times t_d$  Pulse Waveform



Normalized  $V_S$  Change versus Junction Temperature



Normalized DC Holding Current versus Case Temperature

Data Sheets