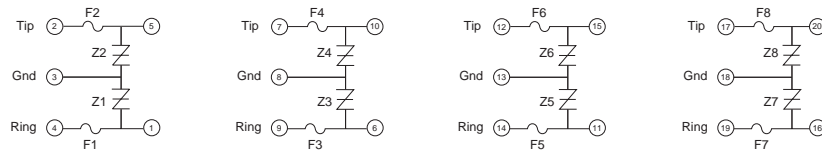


## Four-port Longitudinal Two-chip Protector

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<br>Number * | V <sub>DRM</sub><br>Volts                              | V <sub>S</sub><br>Volts | V <sub>DRM</sub><br>Volts      | V <sub>S</sub><br>Volts | V <sub>T</sub><br>Volts | I <sub>DRM</sub><br>μAmps | I <sub>S</sub><br>mAmps | I <sub>T</sub><br>Amps | I <sub>H</sub><br>mAmps | C <sub>O</sub><br>pF |
|------------------|--|-------------------------|--------------------------------|-------------------------|-------------------------|---------------------------|-------------------------|------------------------|-------------------------|----------------------|
|                  | Pins 2-3, 4-3, 7-8, 9-8,<br>12-13, 14-13, 17-18, 19-18 |                         | Pins 2-4, 7-9,<br>12-14, 17-19 |                         |                         |                           |                         |                        |                         | Pins<br>2-3, 3-4     |
| 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.

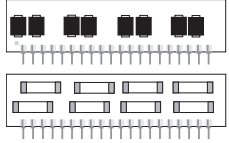
#### General Notes:

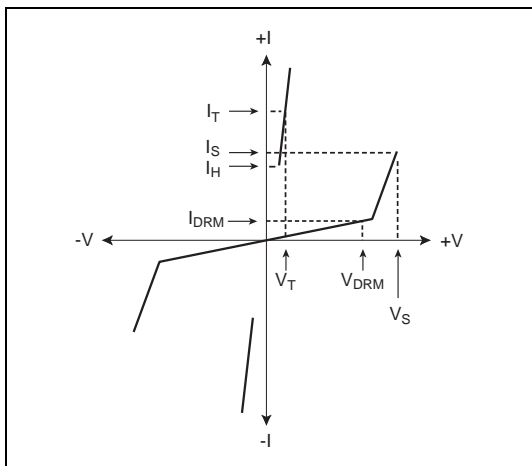
- All measurements are made at an ambient temperature of 25 °C. I<sub>PP</sub> applies to -40 °C through +85 °C temperature range.
- I<sub>PP</sub> is a repetitive surge rating and is guaranteed for the life of the product.
- Listed *SIDACtor* devices are bi-directional. All electrical parameters and 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/μs.
- 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 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

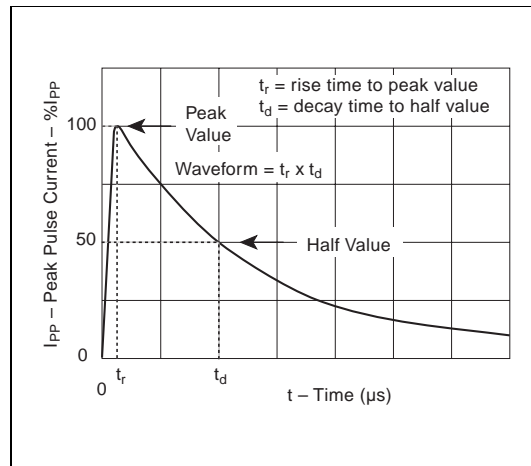
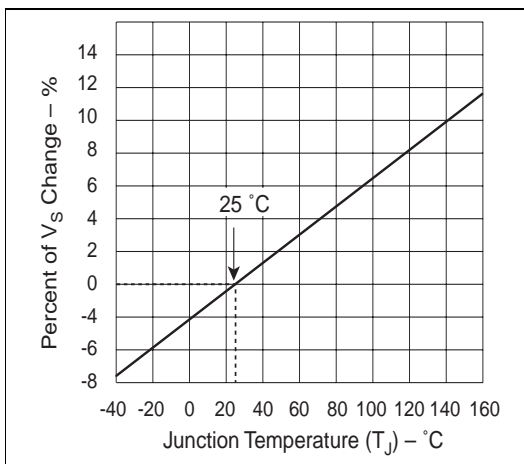
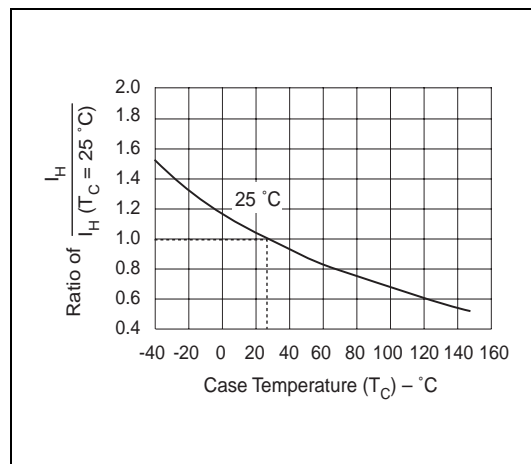
| Series | I <sub>PP</sub><br>2x10 μs<br>Amps | I <sub>PP</sub><br>8x20 μs<br>Amps | I <sub>PP</sub><br>10x160 μs<br>Amps | I <sub>PP</sub><br>10x560 μs<br>Amps | I <sub>PP</sub><br>10x1000 μs<br>Amps | I <sub>TSM</sub><br>60 Hz<br>Amps | di/dt<br>Amps/μs |
|--------|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------|------------------|
| 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 |
|---|-----------------|---|-------------|------|
|  | $T_J$           | 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

 $t_r \times t_d$  Pulse WaveformNormalized  $V_S$  Change versus Junction Temperature

Normalized DC Holding Current versus Case Temperature

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