



CATV Line Amplifiers/Power Inserters ME SIDACtor Device

## **CATV Line Amplifiers/Power Inserters ME SIDACtor Device**

This SIDACtor device is a 5000 A solid state protection device offered in a non-isolated TO-218 package. It protects equipment located in the severe surge environment of CATV (Community Antenna TV) applications.

In CATV line amplifiers and power inserters, this device can replace the gas tubes traditionally used for station protection because SIDACtor devices have much tighter voltage tolerances.

## **Electrical Parameters**

Part Number *	V <sub>DRM</sub> Volts	V <sub>S</sub> Volts	V <sub>T</sub> Volts	Ι <sub>DRM</sub> μAmps	l <sub>S</sub> mAmps	I <sub>T</sub> Amps **	I <sub>H</sub> mAmps	C <sub>O</sub> pF
P1500ME	140	180	4	5	800	2.2/25	50	750
P1900ME	140	220	4	5	800	2.2/25	50	750
P2300ME	180	260	4	5	800	2.2/25	50	750

\* For surge ratings, see table below.

\*\* IT is a free air rating; heat sink IT rating is 25 A.

General Notes:

All measurements are made at an ambient temperature of 25 °C. IPP 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. WWW.DZSC.COM

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.

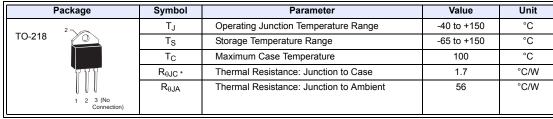
• Off-state capacitance (C<sub>0</sub>) is measured at 1 MHz with a 2 V bias and is a typical value.

## Surge Ratings

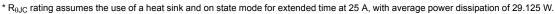
Series	lpp 8x20 μs Amps	I <sub>TSM</sub> 60 Hz Amps	di/dt Amps/µs	
E	5000	400	630	

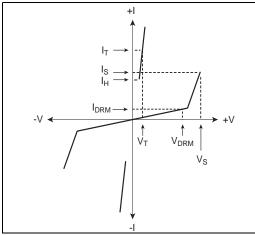


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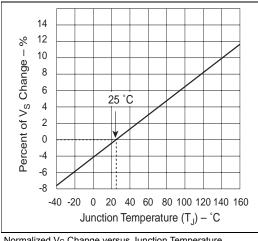


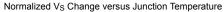


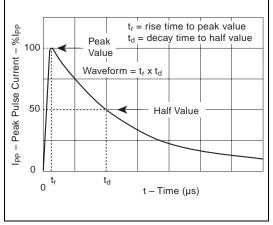




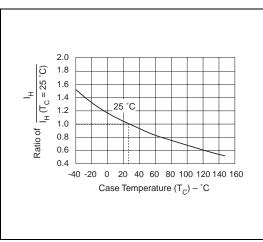












Normalized DC Holding Current versus Case Temperature