High Surge Current Two-pin *SIDACtor*[®] Device

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This *SIDACtor* device is intended for very hostile environments such as CATV (Community Antenna TV) systems and electronics connected to external antennas.

Electrical Parameters

Part Number *	V _{DRM} Volts	V _S Volts	V _T Volts	Ι _{DRM} μAmps	I _S mAmps	I _T Amps	I _H mAmps
P1400ADL	120	160	3	5	800	2.2	50
P1800ADL	170	220	3	5	800	2.2	50

* "L" in part number indicates RoHS compliance. For non-RoHS compliant device, delete "L" from part number. 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.

- $I_{\mbox{\scriptsize PP}}$ 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.

Surge Ratings in Amps

	Ірр			
	8x20 * 1.2x50 **	10x1000 * 10x1000 **	І _{тѕм} 50 / 60 Hz	di/dt
Series	Amps	Amps	Amps	Amps/µs
D	1000	250	120	500

* Current waveform in µs

** Voltage waveform in µs

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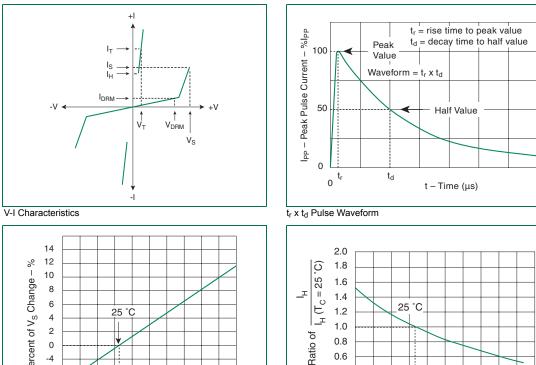
Thermal Considerations

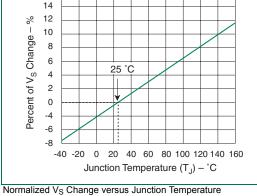
Package	Symbol	Parameter	Value	Unit
	TJ	Operating Junction Temperature Range	-40 to +150	°C
Modified TO-220	Τ _S	Storage Temperature Range	-65 to +150	°C
	R _{0JA}	Thermal Resistance: Junction to Ambient	60	°C/W

Capacitance Values

	pF		
Part Number	MIN	MAX	
P1400ADL	140	200	
P1800ADL	120	180	

Note: Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias.







0.6

0.4

-40 -20

0 20 40 60 80 100 120 140 160

Case Temperature $(T_C) - C$