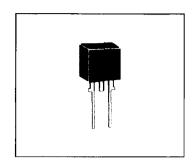
CATV Series

The P1400AD SIDACtor is a 1000A rated solid state protection device offered in a TO-220 package and is designed to meet the severe surge requirements found in a CATV environment.

Used in Hybrid Fiber Coax (HFC) applications, the P1400AD replaces the gas tube that is traditionally used for station protection due to the P1400AD's tight voltage tolerances.



Electrical Parameters

Part	V _{ORM}	V _S	V _T	loru	l _a	կ	l _H	C _O
Number	Volts	Volts	Volts	µAmps	mAmps	Amps	mAmps	pF
P1400AD	120	160	5	5	800	1	50	200

Notes:

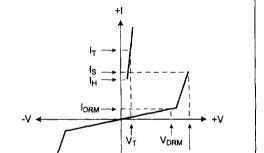
- · All measurements are made at an ambient temperature of 25°C.
- · Listed SIDACtors are bi-directional. All electrical parameters & surge ratings apply to forward and reverse polarities.
- V_{DRM} is measured at I_{DRM}.
- V_S is measured at 100V/µs.
- Special voltage (V_S & V_{DRM}) and holding current (I_H) requirements are available upon request.
- Off-state capacitance is measured at 1MHz with a 2 volt bias and is a typical value.

Surge Ratings

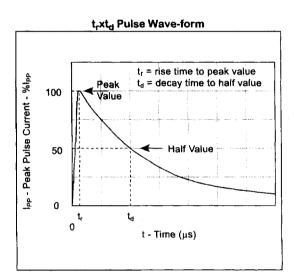
Series	fine 8x20µs Amps	јее 10к1000µs Атра	i Tam GOHz Ampa	dl/dt Amps/ps
P1400AD	1000	250	120	500

Thermal Considerations

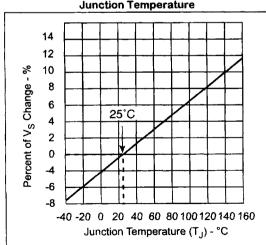
Series	Symbol	Parameter	Value	Unit
<u></u>	T _j	Junction Temperature Range	-40 to +150	°C
	Ts	Storage Temperature Range	-65 to +150	°C
P1400AD	T _c	Maximum Case Temperature	+75	°C
	R _{θjc}	Thermal Resistance: junction to case	+28	°C/W
	$R_{\theta ja}$	Thermal Resistance: junction to ambient	+90	°C/W



V-I Characteristics



Normalized V_S Change vs. Junction Temperature



Normalized DC Holding Current vs.

Case Temperature

