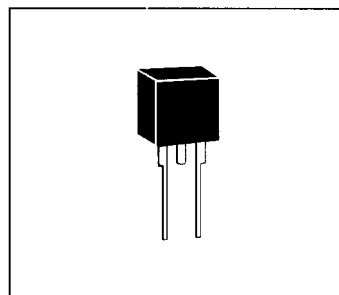


CATV Series SIDACtor

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 Number	V _{DRM} Volts	V _S Volts	V _T Volts	I _{DRM} μAmps	I _S mAmps	I _T Amps	I _H mAmps	C _O pF
P1400AD	120	160	5	5	800	1	50	200

Notes:

- All measurements are made at an ambient temperature of 25°C. I_{PP} applies to -40°C through +35°C temperature range.
- I_{PP} is a repetitive surge rating and is guaranteed for the life of the product.
- 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.

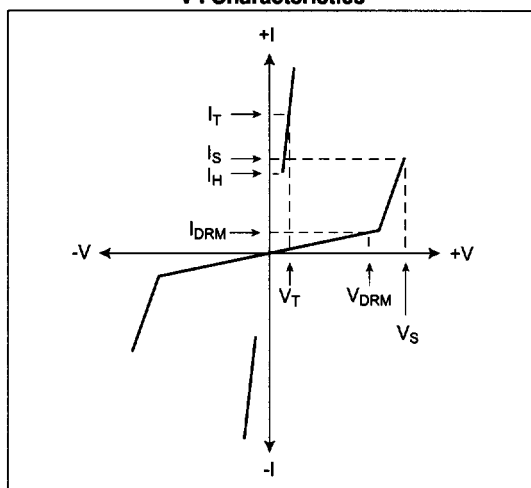
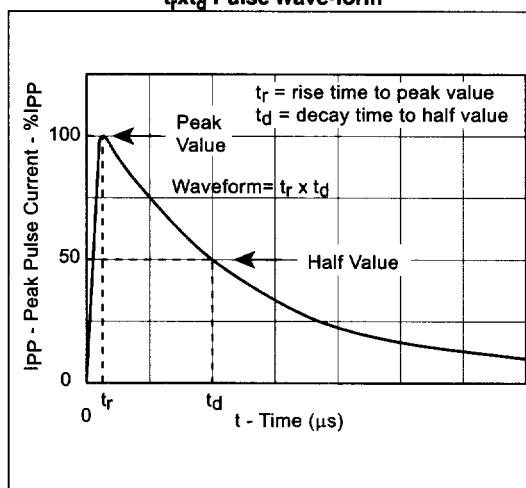
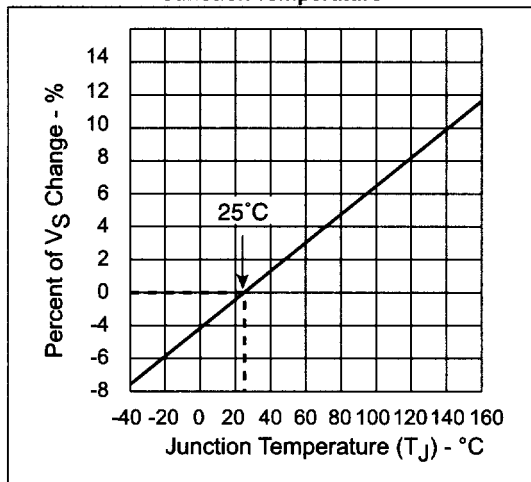
Surge Ratings

Series	I _{PP} 8x20μs Amps	I _{PP} 10x1000μs Amps	I _{TSM} 60Hz Amps	dI/dt Amps/μs
P1400AD	1000	250	120	500

Thermal Considerations

Package	Symbol	Parameter	Value	Unit
P1400AD	T_J	Junction Temperature Range	-40 to +150	°C
	T_s	Storage Temperature Range	-65 to +150	°C
	T_c	Maximum Case Temperature	80	°C
	$R_{\theta jc}$	Thermal Resistance: junction to case	2.8	°C/W
	$R_{\theta ja}$	Thermal Resistance: junction to ambient	60	°C/W

V-I Characteristics

 t_r, t_d Pulse Wave-formNormalized V_S Change vs. Junction Temperature

Normalized DC Holding Current vs. Case Temperature

