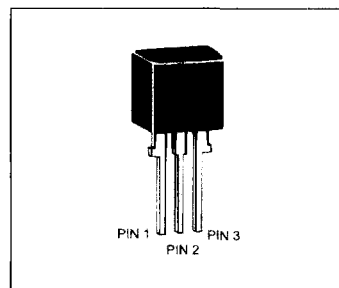


Two Chip TO-220 "AB" Series

The two chip TO-220 "AB" series SIDACTor is a 100A rated solid state protection device designed for telecommunications applications that reference Tip and Ring to earth ground but do not require balanced protection.

The "AB" series SIDACTor is used to help equipment meet various regulatory requirements including: Bellcore 1089, ITU K.20 & K.21, IEC 950, UL 1459 & 1950 and FCC Part 68.



Electrical Parameters

Part Number	V _{DRM} Volts pins 1-2, 3-2	V _S Volts pins 1-2, 3-2	V _{DRM} Volts pins 1-3	V _S Volts pins 1-3	V _T Volts	I _{DRM} μAmps	I _S mAmps	I _T Amps	I _H mAmps	C _O pF
P0602AB	25	40	50	80	5	5	800	1	150	100
P1402AB	58	77	116	154	5	5	800	1	150	60
P1602AB	65	95	130	190	5	5	800	1	150	60
P2202AB	90	130	180	260	5	5	800	1	150	60
P2702AB	120	160	240	320	5	5	800	1	150	40
P3002AB	140	180	280	360	5	5	800	1	150	40
P3602AB	160	220	320	440	5	5	800	1	150	40
P4202AB	190	250	380	500	5	5	800	1	150	30
P4802AB	220	300	440	600	5	5	800	1	150	30
P6002AB	275	350	550	700	5	5	800	1	150	30

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.

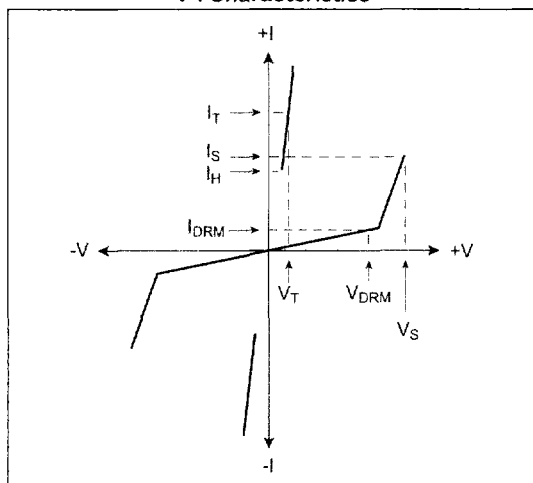
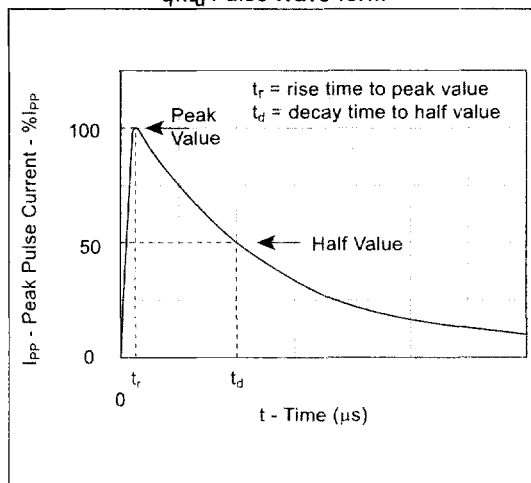
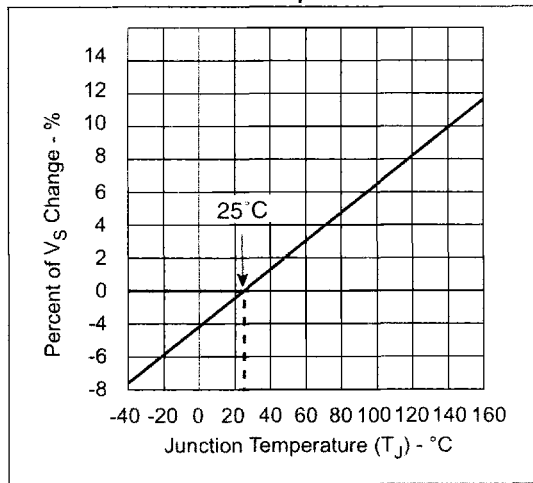
Surge Ratings

Series	I _{pp} 10x160μs Amps	I _{pp} 10x560μs Amps	I _{TSM} 60Hz Amps	dI/dt Amps/μs
AB	150	100	30	500

Thermal Considerations

Series	Symbol	Parameter	Value	Unit
AB	T_J	Junction Temperature Range	-40 to +150	°C
	T_S	Storage Temperature Range	-65 to +150	°C
	T_C	Maximum Case Temperature	+115	°C
	$R_{\theta jc}$	Thermal Resistance: junction to case	+12	°C/W
	$R_{\theta ja}$	Thermal Resistance: junction to ambient	+50	°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

