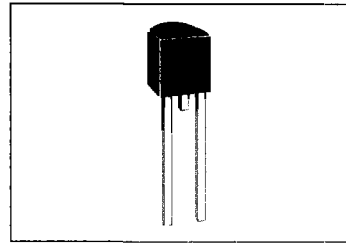


## TO-92 "EB" Series

The TO-92 "EB" series SIDACTor is a 100A rated solid state protection device designed for telecommunications applications such as modems, line cards, fax machines, etc.

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



### Electrical Parameters

Part Number	V <sub>DRM</sub> Volts	V <sub>S</sub> Volts	V <sub>T</sub> Volts	I <sub>DRM</sub> μAmps	I <sub>S</sub> mAmps	I <sub>T</sub> Amps	I <sub>H</sub> mAmps	C <sub>O</sub> pF
P0080EB	5	15	5	5	800	1	150	100
P0300EB	25	40	5	5	800	1	150	100
P0640EB	58	77	5	5	800	1	150	60
P0720EB	65	88	5	5	800	1	150	60
P0800EB	75	98	5	5	800	1	150	60
P1100EB	90	130	5	5	800	1	150	60
P1300EB	120	160	5	5	800	1	150	40
P1500EB	140	180	5	5	800	1	150	40
P1800EB	160	220	5	5	800	1	150	40
P2300EB	190	260	5	5	800	1	150	30
P2600EB	220	300	5	5	800	1	150	30
P3100EB	275	350	5	5	800	1	150	30
P3500EB	300	400	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<sub>DRM</sub> is measured at I<sub>DRM</sub>.
- V<sub>S</sub> is measured at 100V/μs.
- Special voltage (V<sub>S</sub> & V<sub>DRM</sub>) and holding current (I<sub>H</sub>) requirements are available upon request.
- Off-state capacitance is measured at 1MHz with a 2 volt bias and is a typical value.

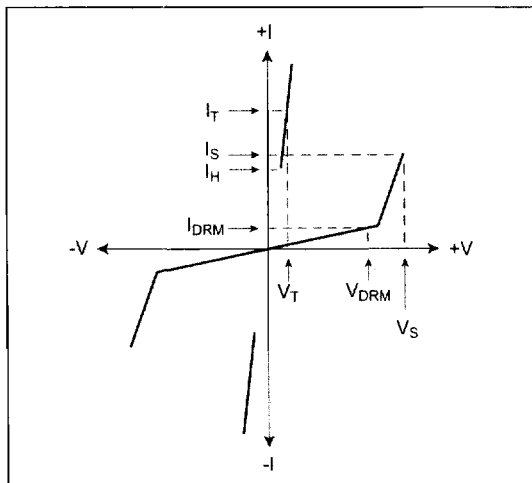
### Surge Ratings

Series	I <sub>pp</sub> 10x160μs Amps	I <sub>pp</sub> 10x560μs Amps	I <sub>TRM</sub> 60Hz Amps	dI/dt Amps/μs
EB	150	100	30	500

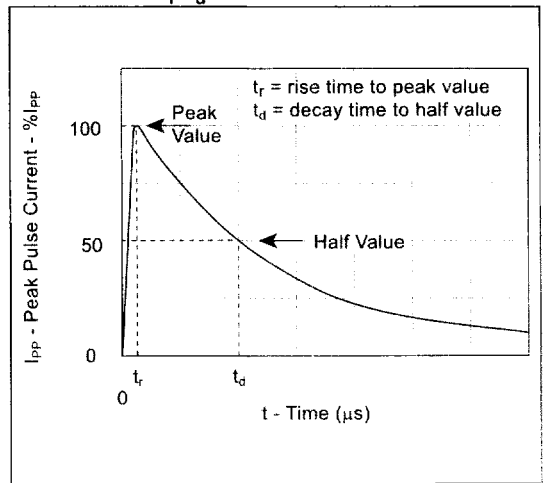
**Thermal Considerations**

Series	Symbol	Parameter	Value	Unit
EB	$T_J$	Junction Temperature Range	-40 to +150	$^{\circ}\text{C}$
	$T_S$	Storage Temperature Range	-65 to +150	$^{\circ}\text{C}$
	$T_C$	Maximum Case Temperature	+110	$^{\circ}\text{C}$
	$R_{\theta jc}$	Thermal Resistance: junction to case	+28	$^{\circ}\text{C/W}$
	$R_{\theta ja}$	Thermal Resistance: junction to ambient	+90	$^{\circ}\text{C/W}$

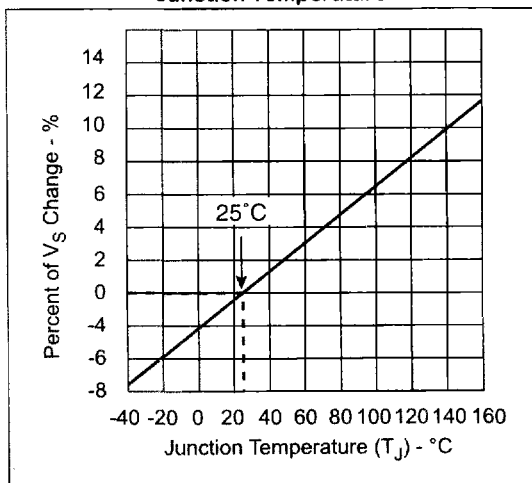
**V-I Characteristics**



**$t_r, t_d$  Pulse Wave-form**



**Normalized  $V_S$  Change vs. Junction Temperature**



**Normalized DC Holding Current vs. Case Temperature**

