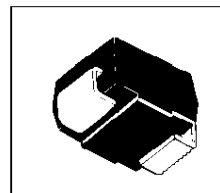


DO-214 SIDACTor

The DO-214 SIDACTor is a solid state protection device designed for telecommunications applications such as modems, line cards, fax machines, etc.

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



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
P0080S_	6	25	5	5	800	1	50	100
P0300S_	25	40	5	5	800	1	50	110
P0640S_	58	77	5	5	800	1	150	50
P0720S_	65	88	5	5	800	1	150	50
P0900S_	75	98	5	5	800	1	150	50
P1100S_	90	130	5	5	800	1	150	40
P1300S_	120	160	5	5	800	1	150	40
P1500S_	140	180	5	5	800	1	150	40
P1800S_	160	220	5	5	800	1	150	30
P2300S_	190	260	5	5	800	1	150	30
P2600S_	220	300	5	5	800	1	150	30
P3100S_	275	350	5	5	800	1	150	30
P3500S_	320	400	5	5	800	1	150	30

* For individual "SA", "SB" and "SC" surge ratings, see table below.

Notes:

- All measurements are made at an ambient temperature of 25°C. I_{PP} applies to -40°C through +85°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 for "SA" and "SB" product. "SC" capacitance is approximately 2x the listed value.

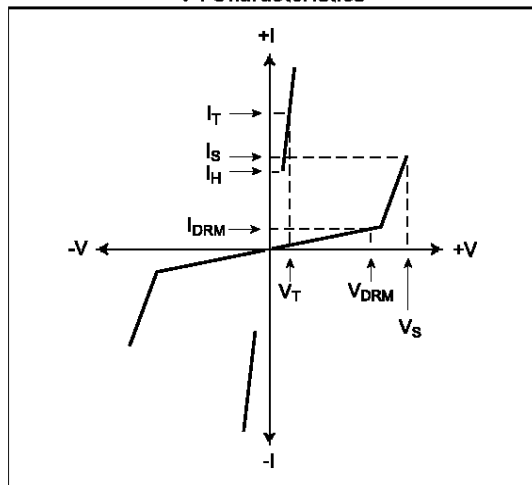
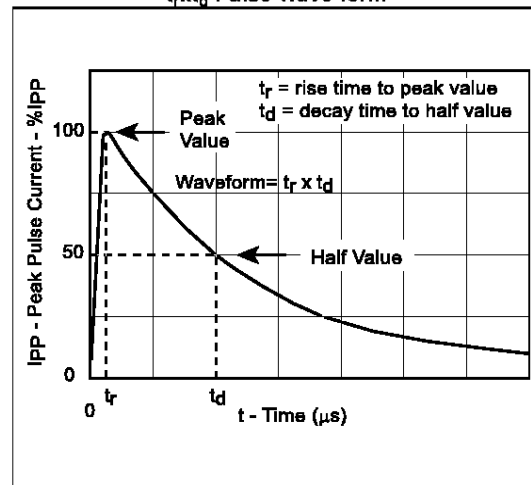
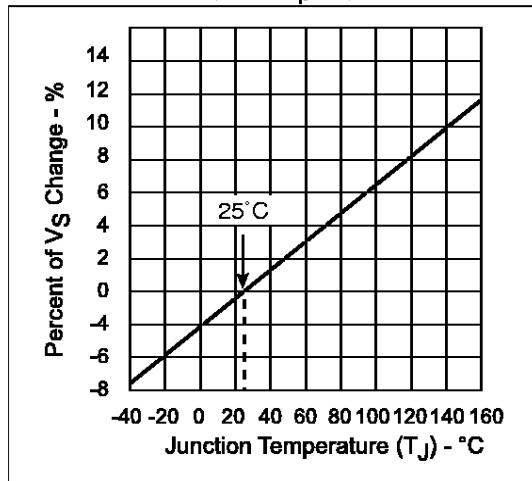
Surge Ratings

Series	I _{PP} 2x10μs Amps	I _{PP} 8x20μs Amps	I _{PP} 10x160μs Amps	I _{PP} 10x560μs Amps	I _{PP} 10x1000μs Amps	I _{TSM} 60Hz Amps	di/dt Amps/μs
A		150	100	50		20	500
B		250	150	100		30	500
C	500	400	200		100	60	500

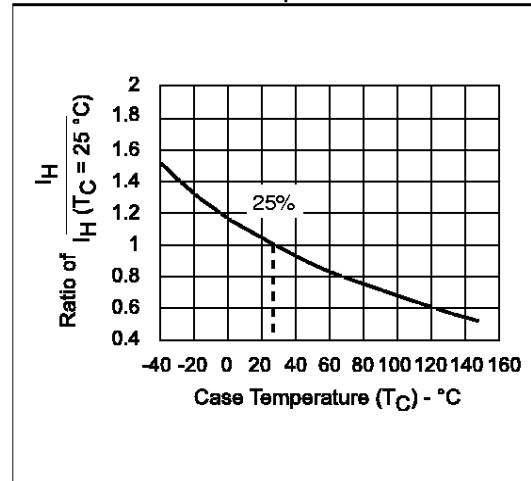
Thermal Considerations

Package	Symbol	Parameter	Value	Unit
DO-214	T_j	Junction Temperature Range	-40 to +150	°C
	T_s	Storage Temperature Range	-65 to +150	°C
	T_c	Maximum Case Temperature	+75	°C
	$R_{\theta jc}$	Thermal Resistance: junction to case	+28	°C/W
	$R_{\theta ja}$	Thermal Resistance: junction to ambient	+90	°C/W

V-I Characteristics

 $t_r \times t_d$ Pulse Wave-formNormalized V_S Change vs. Junction Temperature

Normalized DC Holding Current vs. Case Temperature



DO-214 SIDACtor

Package Symbolization

Standardized Part Number	Symbolized Part Number	Standardized Part Number	Symbolized Part Number
P0080SA	P_8A	P1800SA	P18A
P0080SB	P_8B	P1800SB	P18B
P0080SC	P_8C	P1800SC	P18C
P0300SA	P03A	P2000SA	P20A
P0300SB	P03B	P2000SB	P20B
P0300SC	P03C	P2000SC	P20C
P0640SA	P06A	P2300SA	P23A
P0640SB	P06B	P2300SB	P23B
P0640SC	P06C	P2300SC	P23C
P0641SA	P61A	P2600SA	P26A
P0641SC	P61C	P2600SB	P26B
P0720SA	P07A	P2600SC	P26C
P0720SB	P07B	P3100SA	P31A
P0720SC	P07C	P3100SB	P31B
P0721SA	P71A	P3100SC	P31C
P0721SC	P71C	P3500SA	P35A
P0900SA	P09A	P3500SB	P35B
P0900SB	P09B	P3500SC	P35C
P0900SC	P09C	B1100CA	B10A
P1100SA	P11A	B1100CC	B10C
P1100SB	P11B	B1160CA	B60A
P1100SC	P11C	B1160CC	B60C
P1200SA	P12A	B1200CA	B20A
P1200SB	P12B	B1200CC	B20C
P1200SC	P12C	B2100CA	B21A
P1300SA	P13A	B2100CC	B21C
P1300SB	P13B	B2160CA	B26A
P1300SC	P13C	B2160CC	B26C
P1500SA	P15A	B2200CA	B22A
P1500SB	P15B	B2200CC	B22C
P1500SC	P15C		

Note: On the DO-214 package, date code is located below the Symbolized Part Number. TO-92 and TO-220 devices have full part numbers and a date code printed on the part.