

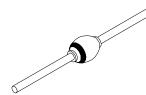
Maximum Ratings		Symbol	Value	Units	
Peak Repetitive Reverse and DC Blocking Voltage		SPD502 SPD503 SPD504 SPD505 SPD506	V _{RRM} V _{RWM} V _R	200 300 400 500 600	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A = 25^{\circ}C$)			Іо	5	Amps
Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, Allow Junction to Reach Equilibrium between Pulses, $T_A = 25^{\circ}C$)			I _{FSM}	100	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +175	°C	
Maximum Thermal Resistance		ion to Lead, L=3/8" Junction to End Tab	R _{θJL} R _{θJE}	15 10	°C/W

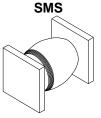
Notes:

1/ For Ordering Information, Price, Operating Curves, and Availability – Contact Factory.

2/ Screening Based on MIL-PRF-19500. Screening Flows Available on Request.

Axial Leaded



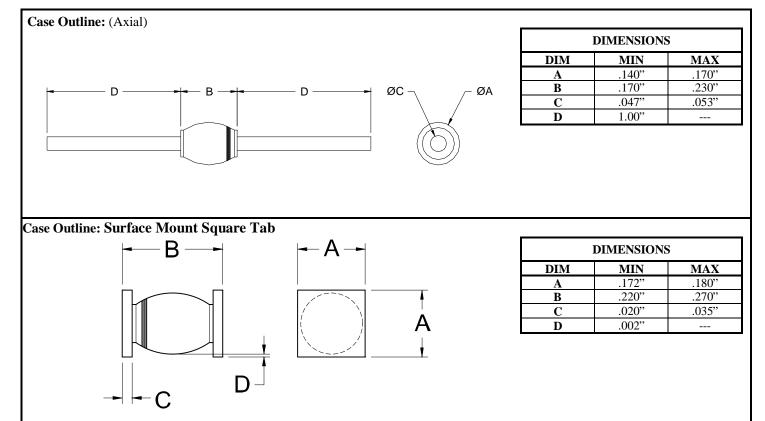




Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

SPD502-SPD506 and SPD502SMS - SPD506SMS

Electrical Characteristics	Symbol	Max	Units
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ Adc}, T_A = 25^{\circ}\text{C}, 300 \mu\text{s} \text{ pulse}$)	$V_{\rm F}$	1.6	Vdc
Instantaneous Forward Voltage Drop ($I_F = 5Adc, T_A = -55^{\circ}C, 300 \ \mu s \ pulse$)	$\mathbf{V}_{\mathbf{F}}$	1.75	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^{\circ}$ C, 300 µs pulse minimum)	I _R	10	μΑ
Reverse Leakage Current (Rated V_R , $T_A = 100^{\circ}$ C, 300 µs pulse minimum)	I _R	1	mA
Junction Capacitance ($V_R = 10$ Vdc, $T_A = 25^{\circ}$ C, $f = 1$ MHz)	CJ	50	pF
Reverse Recovery Time ($I_F = 500$ mA, $I_R = 1A$, $I_{RR} = 0.25A$, $T_A = 25$ °C)	t _{rr}	40	nsec



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RH0105B	DOC
--	-----------------------	-----