PRELIMINARY

SSDI

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada,CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SPD2520 thru SPD2540

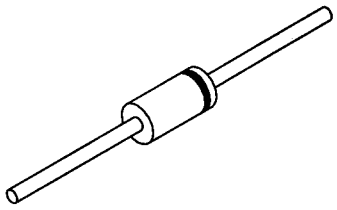
Designer's Data Sheet

0.25 AMP 20-40 VOLTS SCHOTTKY RECTIFIER

FEATURES:

- Extremely Low Forward Voltage Drop
- Hermetically Sealed
- High Surge Capacity
- TX, TXV and Space Level Available
- Surface Mount versions available

AXIAL



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage **SPD2520** **SPD2530** **SPD2540**	V_{RRM} V_{RWM} V_R	20 30 40	**Volts**
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	**Io**	0.25	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, TA=25°C)	**I_{FSM}**	25	**Amps**
Operating and storage temperature	**Top & Tstg**	-55 to +125	**°C**
Maximum Thermal Resistance Junction to Lead, L=3/8"	**$R_{\theta JL}$**	190	**°C/W**

SPD2520 thru SPD2540

PRELIMINARY

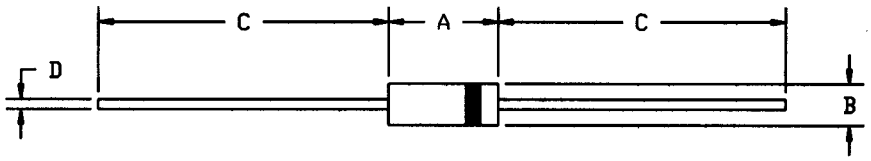
SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada,CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 100mAdc, T_A=25°C, 300µs Pulse) (I_F = 250mAdc, T_A=25°C, 300µs Pulse)	V_F	0.48 0.62	Vdc
Instantaneous Forward Voltage Drop (I_F = 100mAdc, T_A= - 55°C, 300µs Pulse) (I_F = 250mAdc, T_A= - 55°C, 300µs Pulse)	V_F	0.52 0.65	Vdc
Reverse Leakage Current (Rated VR, T_A=25°C, 300µs pulse minimum)	I_R	10	µA
Reverse Leakage Current (Rated V_R, T_A=100°C, 300µs pulse minimum)	I_R	1	mA
Junction Capacitance (V_R = 10 Vdc, T_A=25°C, f= 1 MHz)	C_J	10	pf

CASE OUTLINE:



DIMENSIONS		
DIM	MIN.	MAX.
A	.140"	.160"
B	.065"	.085"
C	1.00"	---
D	.018"	.022"

NOTE: Lead diameter is not controlled within .050" of the diode body.

TYPICAL OPERATING CURVES

(TA=25°C unless otherwise specified)