Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SPD2520 thru SPD2540

Designer's Data Sheet

Part Number / Ordering Information [1/]

SPD 2520 ___ ___

Screening [2/]
TX = TX Level
TXV = TXV Level,
S = S-Level
___ = Not Screened

Package
___ = Axial (DO-35)
SMS = Surface Mount Square Tab

Voltage / Family
2520 = 20V
2530 = 30V
2540 = 40V

0.5 AMP 20-40 VOLTS SCHOTTKY RECTIFIER

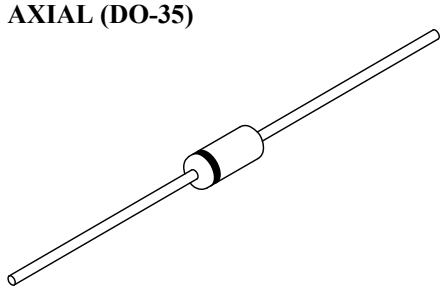
FEATURES:

- **Extremely Low Forward Voltage Drop**
- **High Surge Capability**
- **Hermetically Sealed**
- **Axial or Surface Mount Packages**
  TX, TXV, and Space Level Screening Available [2/]

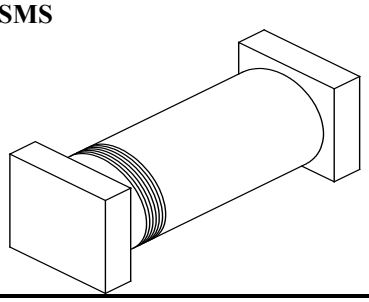
MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	**SPD2520** **SPD2530** **SPD2540**	V_{RRM} V_{RWM} V_R	20 30 40	**Volts**
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, T_A=25°C)		I_O	0.5	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_O, allow junction to reach equilibrium between pulses, T_A=25°C)		I_{FSM}	10	**Amps**
Operating and Storage Temperature		T_{OP} & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Lead, L = 3/8"		$R_{\theta JL}$	190	°C/W

NOTES:
1/ For ordering information, price, and availability, contact factory.
2/ Screening based on MIL-PRF-19500. Screening flows available on request.

AXIAL (DO-35)



SMS

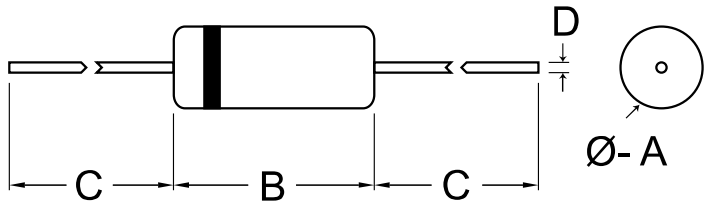


Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SPD2520 thru SPD2540

ELECTRICAL CHARACTERISTICS		Symbol	Max	Unit
Instantaneous Forward Voltage Drop (I_F = 1A$_{DC}$, T_A = 25°C, 300-500 µs Pulse)	I_F = 100mA$_{DC}$ I_F = 500mA$_{DC}$	V_{F1} V_{F2}	0.5 0.75	**Volts**
Reverse Leakage Current (Rated V_R, T_A = 25°C, 300 µs minimum Pulse)		I_{R1}	5	**µA**
Reverse Leakage Current (Rated V_R, T_A = 100°C, 300 µs minimum Pulse)		I_{R2}	1	**mA**
Junction Capacitance (V_R = 10 V_{DC}, T_A = 25°C, f = 1 MHz)		C_J	10	**pF**

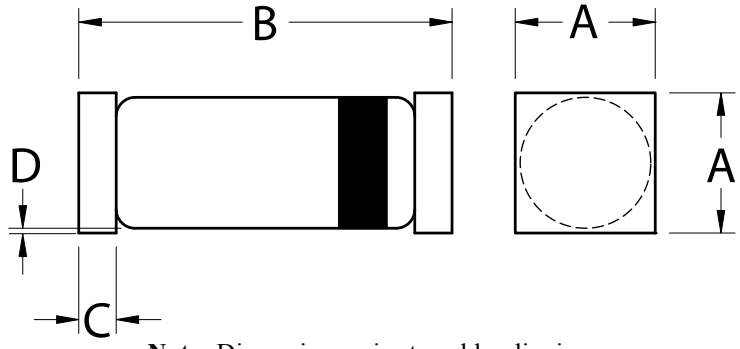
AXIAL CASE OUTLINE: (DO-35)



Note: Lead diameter is not controlled within 0.050" of the diode body.

DIMENSIONS		
CODE	MIN.	MAX.
A	.060"	.080"
B	.140"	.160"
C	1.00"	---
D	.018"	.022"

SMS CASE OUTLINE:



Note: Dimensions prior to solder dipping.

DIMENSIONS		
CODE	MIN.	MAX.
A	.092"	.098"
B	.190"	.215"
C	.022"	.028"
D	.002"	---