



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638

Phone: (562) 404-4474 * Fax: (562) 404-1773

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**SPD2520
thru
SPD2540**

Designer's Data Sheet

Part Number / Ordering Information^{1/}

SPD 252 — —
0

L Screening^{2/}

TX = TX Level

TXV = TXV Level,

S = S-Level

— = Not Screened

L 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:

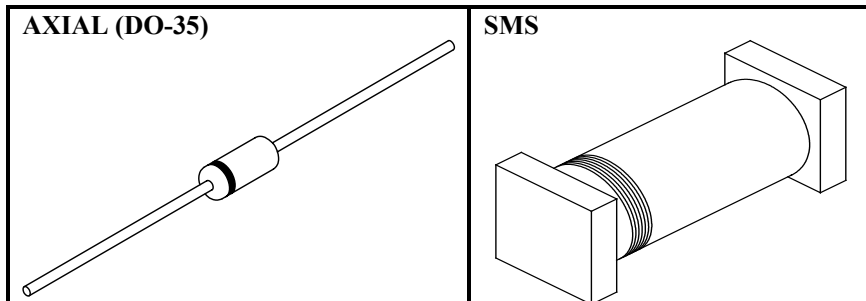
- Extremely Low Forward Voltage Drop
- High Surge Capability
- Hermetically Sealed
- Axial or Surface Mount Packages
- TX, TXV, and Space Level Screening Available

MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SPD2520	V_{RRM}	20	Volts
	SPD2530	V_{RWM}	30	
	SPD2540	V_R	40	
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A=25^\circ\text{C}$)		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, $T_A=25^\circ\text{C}$)		I_{FSM}	10	Amps
Operating and Storage Temperature		T_{OP} & T_{stg}	-65 to +150	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Lead, $L = 3/8''$		$R_{\theta JL}$	190	$^\circ\text{C/W}$

NOTES:

^{1/} For ordering information, price, and availability, contact factory.

^{2/} Screening per MIL-PRF-19500.



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

DATA SHEET #: RS0109D

DOC



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**SPD2520
 thru
 SPD2540**

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

AXIAL CASE OUTLINE: (DO-35)	DIMENSIONS		
	CODE	MIN.	MAX.
	A	.060"	.080"
	B	.140"	.160"
	C	1.00"	---
	D	.018"	.022"
	<p>Note: Lead diameter is not controlled within 0.050" of the diode body.</p>		

SMS CASE OUTLINE:	DIMENSIONS		
	CODE	MIN.	MAX.
	A	.092"	.098"
	B	.190"	.215"
	C	.022"	.028"
	D	.002"	---
	<p>Note: Dimensions prior to solder dipping.</p>		

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