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SSR8045S1

DESIGNER'S DATA SHEET

Part Number / Ordering Information 1/

SSR8045

___ Screening^{2/}

__ = Not Screened TX = TX Level TXV = TXV Level S = S Level

L Package:

S1 = SMD1

80 AMP SCHOTTKY RECTIFIER 45 Volts

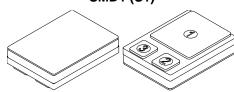
Features:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overload Protection
- Also Available in TO-258 and TO-259 Versions
- 175°C Operating Temperature
- TX, TXV, and S Level Screening Available^{2/}

MAXIMUM RATINGS	Symbol	Value	Unit	
Peak Repetitive Reverse and DC Blocking Voltage	V _{RRM} V _{RSM} V _R	45	V	
Average Rectified Forward Current ^{3/} Resistive Load, 60 Hz Sine Wave, T _A = 25°C	Io	80	Α	
Peak Surge Current ^{3/} 8.3 ms Pulse, Half Sine Wave, T _A = 25°C	I _{FSM}	600	А	
Operating & Storage Temperature	T _{OP} & T _{STG}	-65 to +175	°C	
Maximum Thermal Resistance Junction to Case	R _{eJC}	0.5	°C/W	

Notes: SMD1 (S1)

- 1/ For ordering information, price, operating curves, and availability Contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Maximum electrical rating shown for both anodes tied together.
- 4/ All electrical characteristics per leg @ 25°C, unless otherwise specified.





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Solid State Devices, Inc.

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ELECTRICAL CHARACTERISTICS 3/4/		Symbol	Min	Тур	Max	Unit
Instantaneous Forward Voltage Drop (T _A = 25°C, pulse)	I _F = 20 A I _F = 40 A I _F = 80 A	V _{F1} V _{F2} V _{F3}	- - -	0.425 0.470 0.540	0.50 0.55 0.65	V _{DC}
Instantaneous Forward Voltage Drop (T _A = -55°C, pulse)	I _F = 40 A	V_{F4}	-	0.55	0.65	V _{DC}
Reverse Leakage Current (Rated V _R , T _A = 25°C, pulse)		I _{R1}	-	50	400	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, pulse)		I _{R2}	-	15	30	mA
Junction Capacitance (V _R = 10 V, f = 1 MHz, T _A = 25°C)		CJ	-	5000	5500	pF

