



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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SSR007

**2 AMP
SCHOTTKY RECTIFIER
25 VOLTS**

Designer's Data Sheet

Part Number/Ordering Information^{1/}

SSR007

 └─ Screening^{2/}
 └─ = Not Screened
 └─ TX = TX Level
 └─ TXV = TXV
 └─ -S = S Level

Package Type
 SM = Surface Mount Round Tab

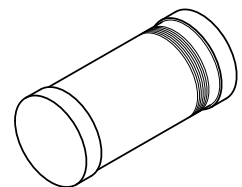
- FEATURES:**
- Extremely Low Forward Voltage Drop
 - PIV of 25 Volts
 - Hermetically Sealed Surface Mount Package
 - For High Efficiency Applications
 - High Surge Capability
 - Axial Lead Versions Available
 - TX, TXV, or Space Level Screening Available^{2/}

MAXIMUM RATINGS^{3/}

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	25	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_C=25^\circ\text{C}$)	I_O	2	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, superimposed on I_O , allow junction to reach equilibrium between pulses, $T_C=55^\circ\text{C}$)	I_{FSM}	60	Amps
Operating Temperature	T_{OP}	-55 to +100	$^\circ\text{C}$
Operating and Storage Temperature	T_{STG}	-55 to +125	$^\circ\text{C}$
Maximum Thermal Resistance Junction to End Tab	$R_{\theta JE}$	40	$^\circ\text{C/W}$

NOTES:

- ^{1/} For ordering information, operating curves, price, and availability- Contact factory.
- ^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.
- ^{3/} Unless otherwise specified, all electrical ratings/characteristics @ 25°C.



SURFACE MOUNT ROUND TAB



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ELECTRICAL CHARACTERISTICS ^{3/}				
CHARACTERISTICS		SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, 300-500 μs Pulse)	$I_F = 1 \text{ A dc}$	V_{F1}	0.49	Vdc
	$I_F = 2 \text{ A dc}$	V_{F2}	0.59	
Instantaneous Forward Voltage Drop ($T_A = 75^\circ\text{C}$, 300-500 μs Pulse)	$I_F = 1 \text{ A dc}$	V_{F3}	0.46	Vdc
	$I_F = 2 \text{ A dc}$	V_{F4}	0.56	
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs Pulse Minimum)		I_{R1}	0.20	mA
Reverse Leakage Current (Rated V_R , $T_A = 75^\circ\text{C}$, 300 μs Pulse Minimum)		I_{R2}	2.00	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)		C_J	100	pF

<p>Case Outline- Surface Mount Round Tab</p>	DIMENSIONS		
	Dimension	Minimum	Maximum
	ØA	.094"	.105"
	B	.189"	.205"
	C	.016"	.022"
	D	.001"	---
Note: Dimensions are prior to solder dipping			