



Solid State Devices, Inc.

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SSR007

Designer's Data Sheet

Part Number/Ordering Information^{1/}

SSR007

L Screening^{2/}

— = Not Screened

TX = TX Level

TXV = TXV

-S = S Level

Package Type

SM = Surface Mount Round Tab

2 AMP
SCHOTTKY RECTIFIER
25 VOLTS

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/}

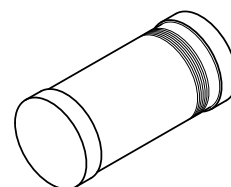
RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	25	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_C=25^{\circ}C$)	I_O	2	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, superimposed on I_O , allow junction to reach equilibrium between pulses, $T_C=55^{\circ}C$)	I_{FSM}	60	Amps
Operating Temperature	T_{OP}	-55 to +100	$^{\circ}C$
Operating and Storage Temperature	T_{STG}	-55 to +125	$^{\circ}C$
Maximum Thermal Resistance Junction to End Tab	$R_{\theta JE}$	20	$^{\circ}C/W$

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

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

DATA SHEET #: RS0279E

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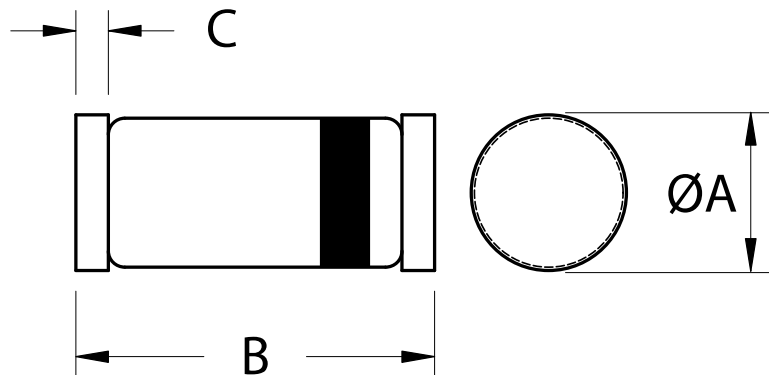
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ELECTRICAL CHARACTERISTICS ^{3/}

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

Case Outline- Surface Mount Round Tab



DIMENSIONS

Dimension	Minimum	Maximum
$\varnothing A$	.094"	.105"
B	.189"	.205"
C	.016"	.022"
D	.001"	---

Note: Dimensions are prior to solder dipping

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