

SOLID STATE DEVICES, INC.

14005 Stage Road * Santa Fe Springs, Ca 90670
 Phone: (562) 404-4474 * Fax: (562) 404-1773

SSR007

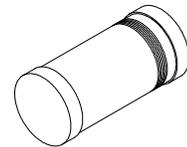
**2 AMP
 25 VOLTS
 SCHOTTKY
 RECTIFIER**

Designer's Data Sheet

FEATURES:

- Extremely Low Forward Voltage Drop
- PIV of 25 Volts
- For High Efficiency Applications
- Hermetically Sealed Surface Mount Package
- High Surge Capability
- Axial Lead Versions Available
- TX, TXV and Space Level Screening Available

**SURFACE MOUNT
 ROUND TAB**



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	25	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_C = 25\text{ }^\circ\text{C}$)	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, $T_C = 55\text{ }^\circ\text{C}$)	I_{FSM}	60	Amps
Operating Temperature	T_{OP}	-55 TO +100	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 TO +125	$^\circ\text{C}$
Maximum Thermal Resistance Junction to End Tab	$R_{\theta JE}$	20	$^\circ\text{C/W}$

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

DATA SHEET #: RS0279C Sheet4U.com

SSR007

PRELIMINARY



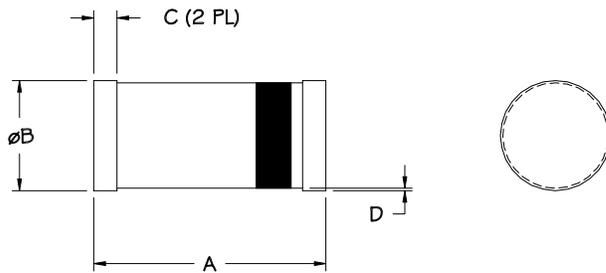
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Electrical Characteristics		SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, 300 - 500 μs Pulse)	$I_F = 1 \text{ A}_{\text{DC}}$	V_{F1}	0.49	V_{DC}
	$I_F = 2 \text{ A}_{\text{DC}}$	V_{F2}	0.59	
Instantaneous Forward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

CASE OUTLINE:



DIMENSIONS

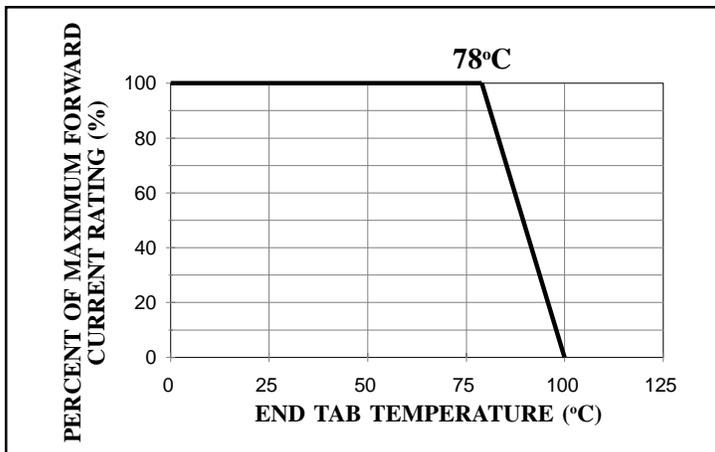
DIM	MIN.	MAX.
A	.189"	.205"
B	.094"	.105"
C	.016"	.022"
D	.001"	-

NOTE:

Dimensions are prior to solder dipping

TYPICAL OPERATING CURVES

($T_A = 25^\circ\text{C}$ unless otherwise specified)



FORWARD VOLTAGE

