



PRELIMINARY

**SOLID STATE DEVICES, INC.**

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

**SSR007**

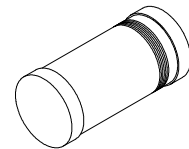
**2 AMP  
25 VOLTS  
SCHOTTKY  
RECTIFIER**

**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**

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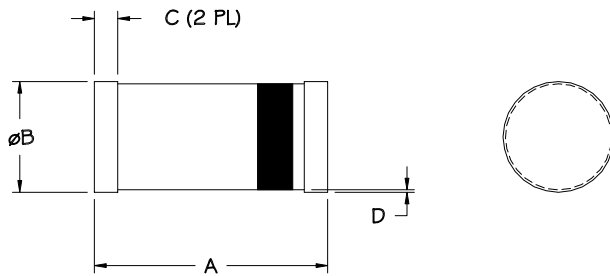
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Electrical Characteristics		SYMBOL	VALUE	UNITS
<b>Instantaneous Forward Voltage Drop</b> ( $T_A = 25^\circ\text{C}$ , 300 - 500 $\mu\text{s}$ Pulse)	$I_F = 1 \text{ A}_{\text{DC}}$	$V_{F1}$	0.49	$V_{\text{DC}}$
	$I_F = 2 \text{ A}_{\text{DC}}$	$V_{F2}$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

CASE OUTLINE:



DIMENSIONS

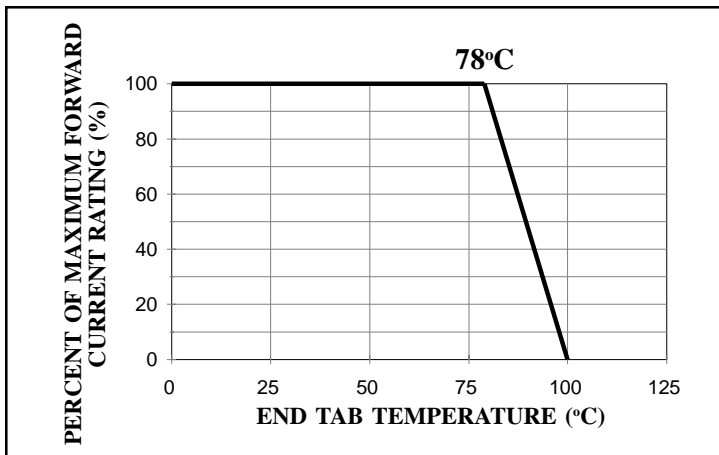
DIM	MIN.	MAX.
A	.189"	.205"
B	.094"	.105"
C	.016"	.022"
D	.001"	-

NOTE:

Dimensions are prior to solder dipping

TYPICAL OPERATING CURVES

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



FORWARD VOLTAGE

