SOLID STATE DEVICES, INC.
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SSR0340-4

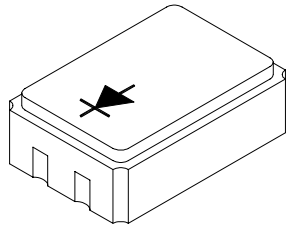
Designer's Data Sheet

3 AMP 40 VOLTS SCHOTTKY SMD RECTIFIER

FEATURES:

- **Low Forward Voltage Drop: 0.48V**
- **Hermetically Sealed Surface Mount Package**
- **Guard Ring for Overvoltage Protection**
- **Eutectic Die Attach**
- **TX, TXV and Space Level Screening Available**
- **3 Amp Replacement for 1N5817, 1N5818, and 1N5819**
- **Higher Voltages Available; Contact Factory**

LCC4



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	**40**	**Volts**
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, T_A = 100°C)	**Io**	**3**	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, T_A = 25°C)	I_{FSM}	**60**	**Amps**
Operating and Storage Temperature	**Top & Tstg**	**-55 TO +150**	**°C**
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	**15**	**°C/W**

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

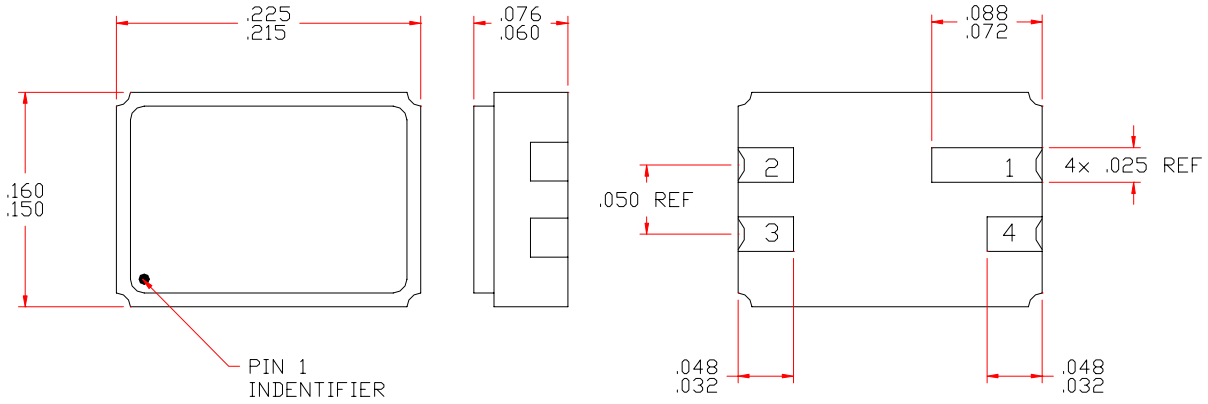
DATA SHEET #: SH0027A

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Electrical Characteristics		SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop (T_A = 25°C, 300 µs Pulse)	I_F = 1A$_{DC}$ I_F = 2A$_{DC}$ I_F = 3A$_{DC}$	**V_{F1}** **V_{F2}** **V_{F3}**	**0.48** **0.58** **0.71**	**V_{DC}**
Instantaneous Forward Voltage Drop (T_A = -55°C, 300 µs Pulse)	I_F = 1A$_{DC}$ I_F = 2A$_{DC}$ I_F = 3A$_{DC}$	**V_{F4}** **V_{F5}** **V_{F6}**	**0.56** **0.64** **0.74**	**V_{DC}**
Instantaneous Forward Voltage Drop (T_A = +100°C, 300 µs Pulse)	I_F = 1A$_{DC}$ I_F = 2A$_{DC}$ I_F = 3A$_{DC}$	**V_{F7}** **V_{F8}** **V_{F9}**	**0.40** **0.53** **0.66**	**V_{DC}**
Reverse Leakage Current (Rated V_R , 300 µsec pulse minimum)	T_A = 25°C T_A = +100°C	**I_{R1}** **I_{R2}**	**0.1** **10**	**mA**
Junction Capacitance (V_R = 5V$_{DC}$, T_A = 25°C, f = 1MHz)		**C_J**	**300**	**pF**

CASE OUTLINE: LCC4
PIN 1: Cathode
PIN 2: Anode
PIN 3: Anode
PIN 4: Cathoc



TYPICAL OPERATING CURVES
(T_A = 25°C unless otherwise specified)

