



SOLID STATE DEVICES, INC.

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet

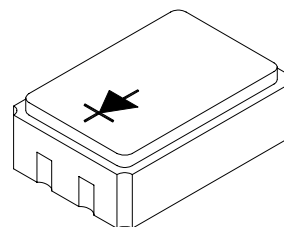
FEATURES:

- **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**

SSR0340-4

**3 AMP
40 VOLTS
SCHOTTKY
SMD RECTIFIER**

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, $T_A = 100^\circ\text{C}$)	I_o	3	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_o , allow junction to reach equilibrium between pulses, $T_A = 25^\circ\text{C}$)	I_{FSM}	60	Amps
Operating and Storage Temperature	Top & Tstg	-55 TO +150	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	15	$^\circ\text{C/W}$

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

DATA SHEET #: 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}	V _{F1}	0.48	V _{DC}
	I _F = 2A _{DC}	V _{F2}	0.58	
	I _F = 3A _{DC}	V _{F3}	0.71	
Instantaneous Forward Voltage Drop (T _A = -55°C, 300 μs Pulse)	I _F = 1A _{DC}	V _{F4}	0.56	V _{DC}
	I _F = 2A _{DC}	V _{F5}	0.64	
	I _F = 3A _{DC}	V _{F6}	0.74	
Instantaneous Forward Voltage Drop (T _A = +100°C, 300 μs Pulse)	I _F = 1A _{DC}	V _{F7}	0.40	V _{DC}
	I _F = 2A _{DC}	V _{F8}	0.53	
	I _F = 3A _{DC}	V _{F9}	0.66	
Reverse Leakage Current (Rated V _R , 300 μsec pulse minimum)	T _A = 25°C	I _{R1}	0.1	mA
	T _A = +100°C	I _{R2}	10	
Junction Capacitance (V _R = 5V _{DC} , T _A = 25°C, f = 1MHz)		C _J	300	pF

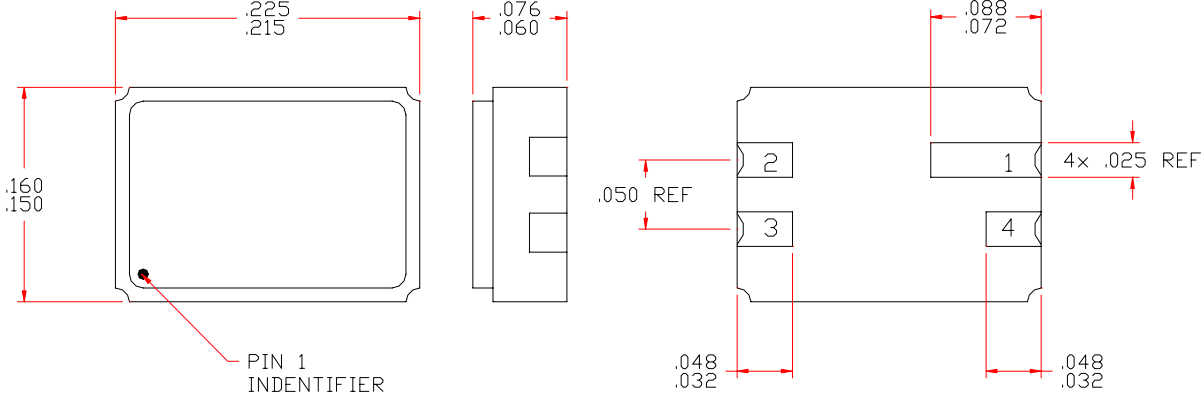
CASE OUTLINE: LCC4

PIN 1: Cathode

PIN 2: Anode

PIN 3: Anode

PIN 4: Cathode



TYPICAL OPERATING CURVES

(T_A = 25°C unless otherwise specified)

