Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SSR0340

3 AMP
SCHOTTKY SMD Rectifier
40 VOLTS

Designer's Data Sheet

Part Number / Ordering Information [1/]

SSR 03 40 ___ ___

- Screening[2/]
  - ___ = Not Screened
  - TX = TX Level
  - TXV = TXV Level
  - S = S Level
- Package
  - S.22 = SMD.22
  - /5 = TO-5
- Voltage
  - 40 = 40V
- Current
  - 03 = 3A

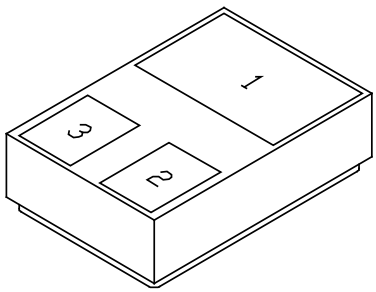
FEATURES:

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

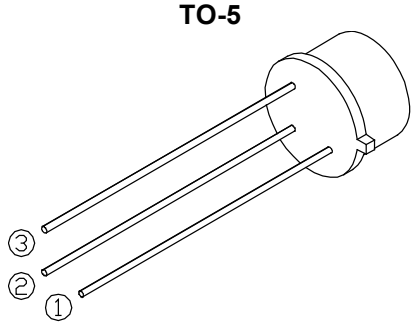
MAXIMUM RATINGS	Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	**Volts**
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, T_A = 100°C)	I_O	3	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, Superimposed on I_O, Allow Junction to Reach Equilibrium between Pulses, T_A = 25°C)	I_{FSM}	60	**Amps**
Operating and Storage Temperature	T_{OP} & T_{stg}	-55 to +150	**°C**
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	15	**°C/W**

Notes:
1/ For ordering information, price, operating curves and availability - contact factory.
2/ Screening based on MIL-PRF-19500. Screening flows available on request.

SMD.22



TO-5



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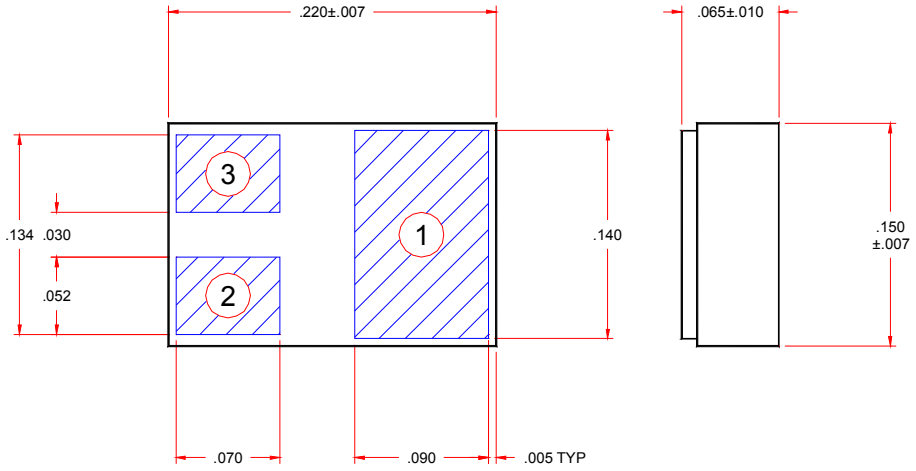
ELECTRICAL CHARACTERISTICS		Symbol	Value	Unit
Instantaneous Forward Voltage Drop (T_A = 25°C, 300 µsec Pulse)	I_F = 1 A_{DC} I_F = 2 A_{DC} I_F = 3 A_{DC}	V_{F1} V_{F2} V_{F3}	0.48 0.58 0.71	V_{DC}
Instantaneous Forward Voltage Drop (T_A = -55°C, 300 µsec Pulse)	I_F = 1 A_{DC} I_F = 2 A_{DC} I_F = 3 A_{DC}	V_{F4} V_{F5} V_{F6}	0.56 0.64 0.74	V_{DC}
Instantaneous Forward Voltage Drop (T_A = +100°C, 300 µsec Pulse)	I_F = 1 A_{DC} I_F = 2 A_{DC} I_F = 3 A_{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 = 1 MHz)		C_J	300	pF

CASE OUTLINE: SMD.22
PIN 1: CATHODE
PIN 2: ANODE
PIN 3: ANODE



CASE OUTLINE: TO-5
PIN 1: CATHODE
PIN 2: ANODE
PIN 3: ANODE