PRELIMINARY

# SSR4040CT

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada,CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

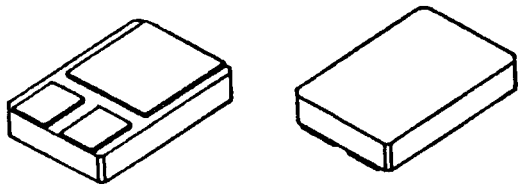
## Designer's Data Sheet

**40 AMP**
**40 VOLTS**
**POSITIVE CENTERTAP**
**SCHOTTKY RECTIFIER**

### FEATURES:

- Extremely Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard ring for overvoltage protection
- Eutectic Die Attach
- 150°C Operating Junction Temperature
- TX, TXV, and Space Level Screening Available

**MILPACK**



## MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|---|---|---|---|
| **Peak Repetitive Reverse and DC Blocking Voltage** | $V_{RRM}$ $V_{RWM}$ $V_R$ | 40 | **Volts** |
| **Average Rectified Forward Current** (Resistive Load, 60Hz, Sine Wave, TA=25°C) | $I_O$ | 40 | **Amps** |
| **Peak Surge Current** (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, TA=25°C) | $I_{FSM}$ | 600 | **Amps** |
| **Operating and storage temperature** | **Top & Tstg** | -65 to +150 | **°C** |
| **Maximum Thermal Resistance** Junction to Case, both legs tied together | $R_{\theta JC}$ | 1.0 | **°C/W** |

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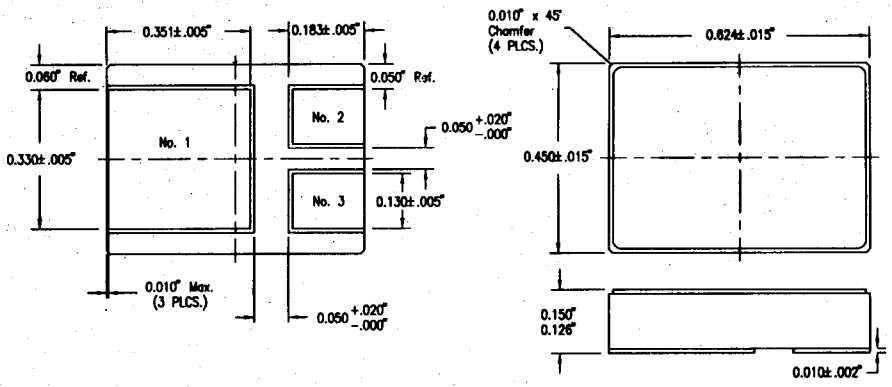
## ELECTRICAL CHARACTERISTICS (Per Leg)

| CHARACTERISTICS | SYMBOL | MAXIMUM | UNIT |
|---|---|---|---|
| **Instantaneous Forward Voltage Drop**<br>($I_F$ = 5 Adc, $T_A$=25°C, 300µs Pulse)<br>($I_F$ =10 Adc, $T_A$=25°C, 300µs Pulse)<br>($I_F$ =20 Adc, $T_A$=25°C, 300µs Pulse) | $V_{F1}$ | 0.38<br>0.47<br>0.62 | Vdc |
| **Instantaneous Forward Voltage Drop**<br>($I_F$ = 10 Adc, $T_A$= - 55°C, 300µs Pulse) | $V_{F2}$ | 0.52 | Vdc |
| **Reverse Leakage Current**<br>(Rated VR, $T_A$=25°C, 300µs pulse minimum) | $I_{R1}$ | 5 | mA |
| **Reverse Leakage Current**<br>(Rated $V_R$, $T_A$=100°C, 300µs pulse minimum) | $I_{R2}$ | 200 | mA |
| **Junction Capacitance**<br>($V_R$ = 10 Vdc, $T_A$=25°C, f= 1 MHz ) | CJ | 800 | pf |

## CASE OUTLINE: MILPACK

**PIN OUT:**

**PIN 1: CATHODE**
**PIN 2: ANODE 1**
**PIN 3: ANODE 2**




## TYPICAL OPERATING CURVES

**(TA=25°C Unless otherwise specified)**

