

**SPD0801SMS
 thru
 SPD1001SMS**

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

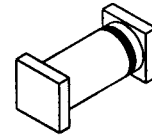
Designer's Data Sheet

FEATURES:

- PIV to 100 Volts
- Extremely Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Capacity
- High Voltage Replacement for:
1N5817-1N5819 Series
- Axial Lead versions available
- TX, TXV and Space Level Screening Available

**1 AMP
 80-100 VOLTS
 SCHOTTKY
 RECTIFIER**

**SURFACE MOUNT
 SQUARE TAB**



MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|---|------------|-------------|-------|
| Peak Repetitive Reverse and DC Blocking Voltage | VRRM | 80 | Volts |
| | VRWM | 90 | |
| | VR | 100 | |
| | | | |
| Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) | Io | 1 | Amps |
| Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, TA=25°C) | IFSM | 40 | Amps |
| Operating and storage temperature | Top & Tstg | -55 to +125 | °C |
| Maximum Thermal Resistance Junction to End Tab | RθJE | 20 | °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#: RS0117 C

RMD

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PRELIMINARY



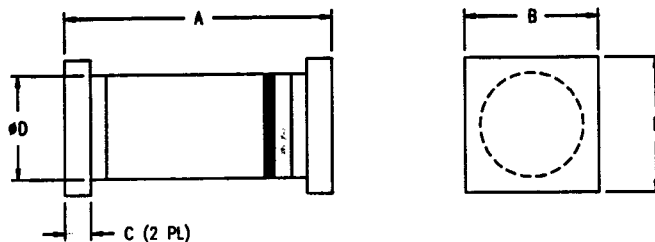
SOLID STATE DEVICES, INC.

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ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS | SYMBOL | MAXIMUM | UNIT |
|---|----------------------|--------------|---------------|
| Instantaneous Forward Voltage Drop ($I_F = 0.5 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 1 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) | V_F | 0.75 0.95 | Vdc |
| Instantaneous Forward Voltage Drop ($I_F = 1 \text{ Adc}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse) | V_F | 1.0 | Vdc |
| Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum) | I_R | 200 | μA |
| Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum) | I_R | 10 | mA |
| Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$) | C_J | 30 | pf |

CASE OUTLINE:



| DIMENSIONS | | |
|------------|-------|-------|
| DIM | MIN. | MAX. |
| A | .180" | .235" |
| B | .125" | .135" |
| C | .022" | .028" |
| D | .090 | .110 |

NOTE: Dimensions are prior to solder dipping.

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

