

1N6840 AND 1N6841

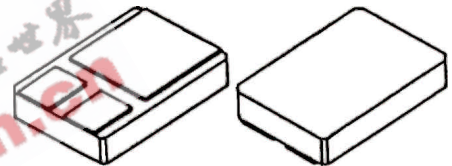
DESIGNER'S DATA SHEET

FEATURES:

- Low Profile Ceramic SMD
- High Surge Rating
- Low Reverse Leakage Current
- Low Forward Voltage
- Seam Welded Package
- Low Capacitance
- Ultrasonic Aluminum Wire Bonds

35 and 45 VOLTS, 10 AMP
 DUAL SCHOTTKY
 COMMON CATHODE
 CENTERTAP RECTIFIER

SMD-0.5



MAXIMUM RATINGS (per leg)

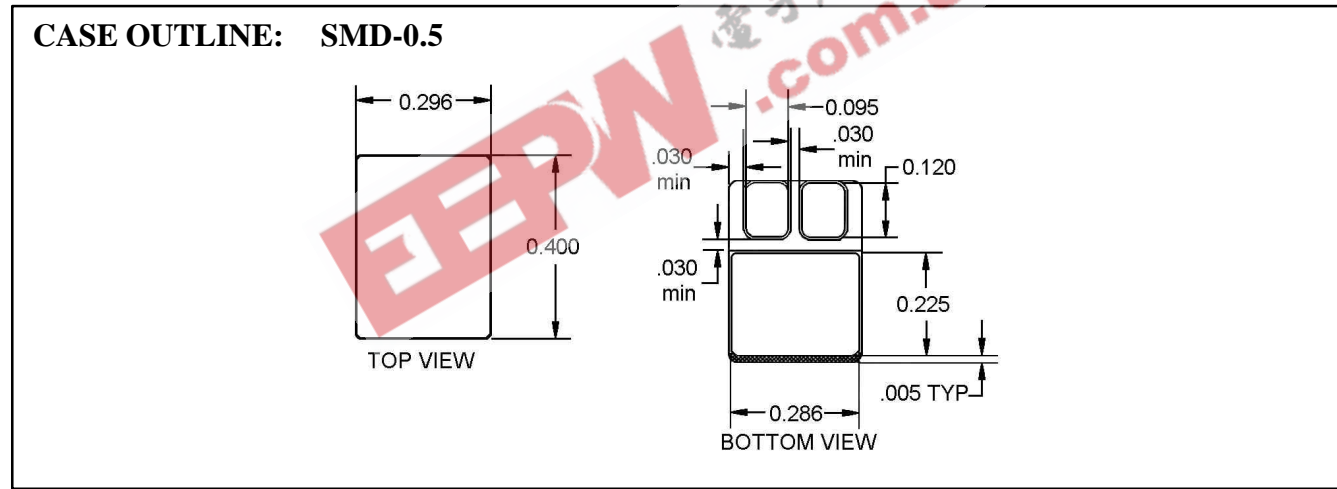
| RATING | SYMBOL | VALUE | UNIT |
|--|---|------------------|---------------------------|
| Peak Repetitive Reverse and DC Blocking Voltage 1N6840 1N6841 | V_{RRM} V_{RWN} V_R | 35 45 | Volts |
| Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_A = 25^\circ\text{C}$) | I_o | 10 | Amps |
| Peak Surge Current (8.3 ms Pulse, $T_A = 25^\circ\text{C}$, per leg) | I_{FSM} | 200 | Amps |
| Operating & Storage Temperature | T_{op} & T_{stg} | -55 to +150 | $^\circ\text{C}$ |
| Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case <i>Note 1</i> | $R_{\theta JC}$ | 2.8 1.7 | $^\circ\text{C}/\text{W}$ |

Note 1: Both legs tied together
 8/2/99

1N6840 AND 1N6841

ELECTRICAL CHARACTERISTICS (per leg)

| CHARACTERISTICS | SYMBOL | MAX. | UNIT |
|--|--------|---|------------|
| Instantaneous Forward Voltage Drop ($I_F = 3 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300us Pulse) ($I_F = 10 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300μs Pulse) ($I_F = 20 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300μs Pulse) | V_F | 0.62 0.75 0.88 | Vdc |
| Instantaneous Forward Voltage Drop ($I_F = 10 \text{ Adc}$, $T_A = 100^\circ\text{C}$, 300μs Pulse) ($I_F = 20 \text{ Adc}$, $T_A = 100^\circ\text{C}$, 300μs Pulse) | V_F | 0.63 0.70 | Vdc |
| Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300μs pulse minimum) | I_R | 100 | μA |
| Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300μs 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 | 400 | Pf |



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

