



7516 Central Industrial Drive
Riviera Beach, FL 33404
PH: 561-842-0305
Fax: 561-845-7813

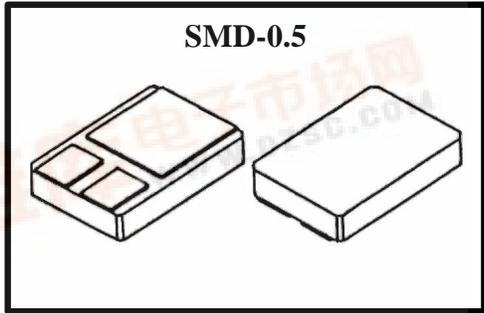
1N6843

**100 VOLTS, 10 AMP
DUAL SCHOTTKY
COMMON CATHODE
CENTERTAP RECTIFIER**

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



MAXIMUM RATINGS (per leg)

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage 1N6843	V_{RRM} V_{RWN} V_R	100	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	Top & Tstg	-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	$^\circ\text{C}/\text{W}$

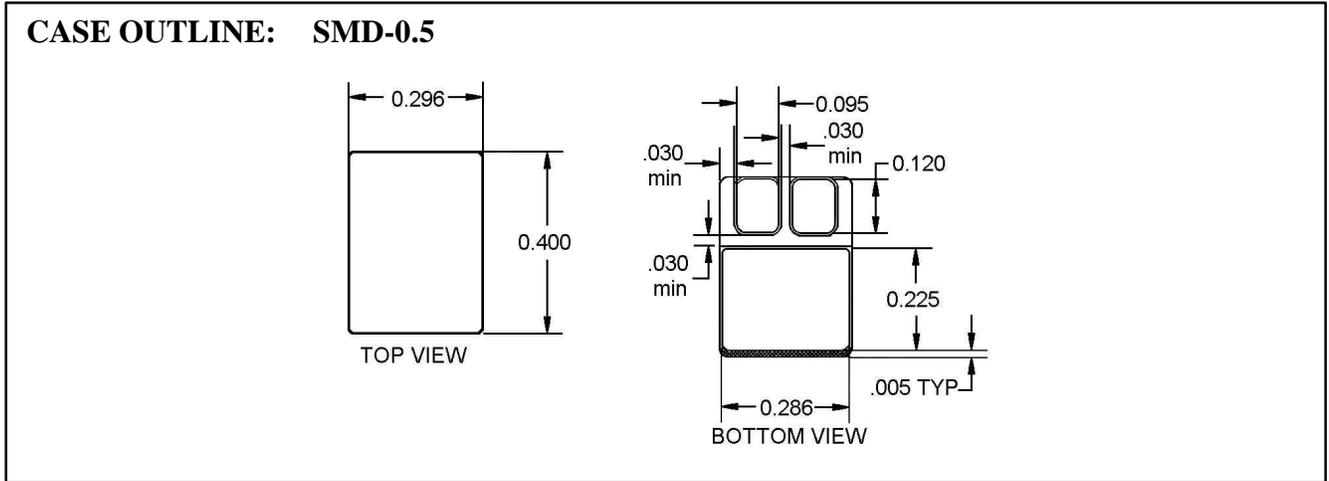
Note 1: Both legs tied together

11/1199



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) ($I_F = 5 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300μs Pulse) ($I_F = 10 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300μs Pulse)	V_F	0.75 0.80 0.93	Vdc
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ Adc}$, $T_A = 100^\circ\text{C}$, 300μs Pulse) ($I_F = 5 \text{ Adc}$, $T_A = -55^\circ\text{C}$, 300μs Pulse)	V_F	0.65 0.90	Vdc
Reverse Leakage Current (Rated VR, $T_A = 25^\circ\text{C}$, 300μs pulse minimum)	I_R	50	μA
Reverse Leakage Current (Rated VR, $T_A = 100^\circ\text{C}$, 300μs pulse minimum)	I_R	5	mA
Junction Capacitance ($V_R = 10\text{Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	C_J	300	Pf



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

