

1N6843

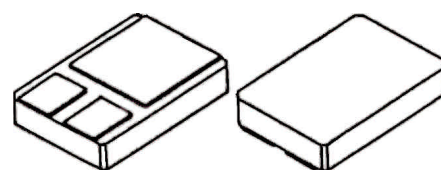
**100 VOLTS, 10 AMP
 DUAL SCHOTTKY
 COMMON CATHODE
 CENTERTAP RECTIFIER**

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

SMD-0.5



MAXIMUM RATINGS (per leg)

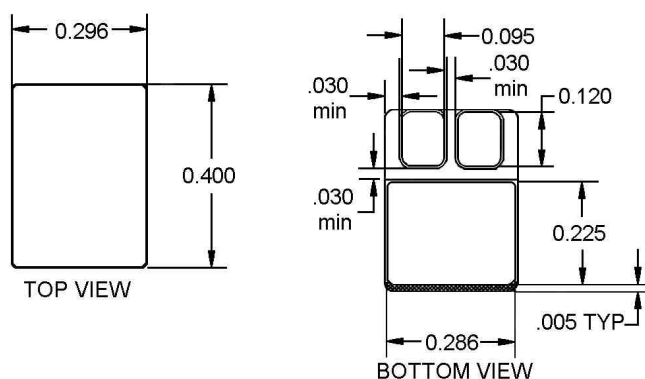
RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage 1N6843	V_{RRM} V_{RWN} V_R	 100	 Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_A = 25^\circ\text{C}$)	I_o	10	Amps
Peak Surge Current (8.3 ms Pulse, $T_A = 25^\circ\text{C}$, per leg)	I_{FSM}	200	Amps
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
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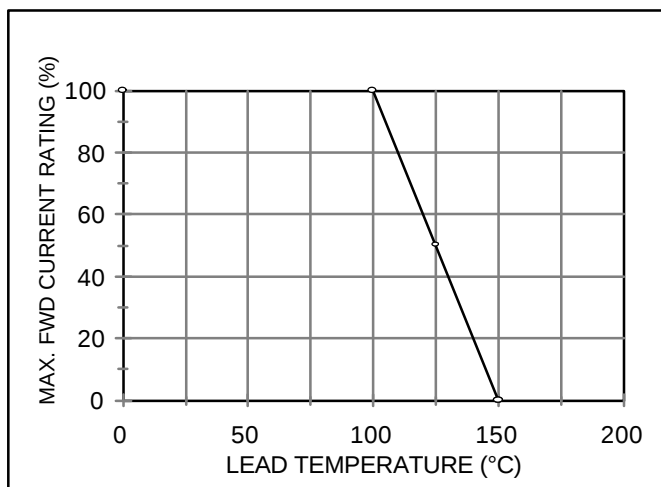
ELECTRICAL CHARACTERISTICS (per leg)

CHARACTERISTICS	SYMBOL	MAX.	UNIT
Instantaneous Forward Voltage Drop ($I_F = 3 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 5 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 10 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	0.75 0.80 0.93	Vdc
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ A dc}$, $T_A = 100^\circ\text{C}$, 300 μs Pulse) ($I_F = 5 \text{ A dc}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse)	V_F	0.65 0.90	Vdc
Reverse Leakage Current (Rated VR, $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	I_R	50	μA
Reverse Leakage Current (Rated VR, $T_A = 100^\circ\text{C}$, 300 μs 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

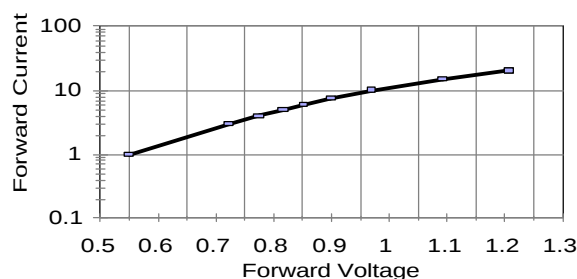
CASE OUTLINE: SMD-0.5



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



1N6843 VF vs. IF (per die)



Mouser Electronics

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