PPC INC.
Microsemi
7516 Central Industrial Drive
Riviera Beach, FL 33404
PH: 561-842-0305
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1N6843

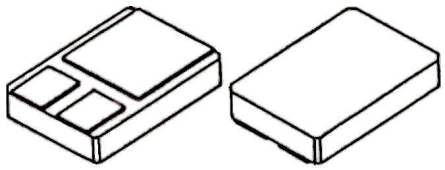
100 VOLTS, 10 AMP
DUAL SCHOTTKY
COMMON CATHODE
CENTERTAP RECTIFIER

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, TA = 25°C)	**Io**	**10**	**Amps**
Peak Surge Current (8.3 ms Pulse, TA = 25°C, per leg)	I_{FSM}	**200**	**Amps**
Operating & Storage Temperature	**Top & Tstg**	**-55 to +150**	**°C**
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case *Note 1*	$R_{\theta JC}$	**2.8** **1.7**	**°C /W**

Note 1: Both legs tied together
11/1199

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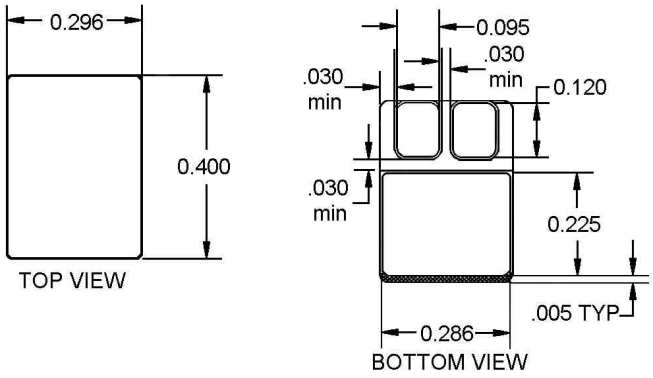
ELECTRICAL CHARACTERISTICS (per leg)

CHARACTERISTICS	SYMBOL	MAX.	UNIT
Instantaneous Forward Voltage Drop (I_F = 3 Adc, T_A = 25•C, 300us Pulse (I_F = 5 Adc, T_A = 25 °C, 300µs Pulse) (I_F = 10 Adc, T_A = 25 °C, 300µs Pulse)	V_F	**0.75** **0.80** **0.93**	**Vdc**
Instantaneous Forward Voltage Drop (I_F = 5 Adc, T_A = 100 °C, 300µs Pulse) (I_F = 5 Adc, T_A = -55 °C, 300µs Pulse)	V_F	**0.65** **0.90**	**Vdc**
Reverse Leakage Current (Rated VR, T_A = 25°C, 300µs pulse minimum)	I_R	**50**	**µA**
Reverse Leakage Current (Rated VR, T_A = 100 °C, 300µs pulse minimum)	I_R	**5**	**mA**
Junction Capacitance V_R = 10Vdc, T_A = 25 °C, f = 1 MHz)	C_J	**300**	**Pf**

CASE OUTLINE: SMD-0.5



TYPICAL OPERATING CURVES

(TA=25°C Unless otherwise specified)