SENSITRON SEMICONDUCTOR SHD124436 SHD124436P SHD124436N SHD124436D

TECHNICAL DATA DATA SHEET 1191, REV. -

# ULTRA LOW REVERSE LEAKAGE POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: A 200 VOLT, 30/45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-258 PACKAGE.

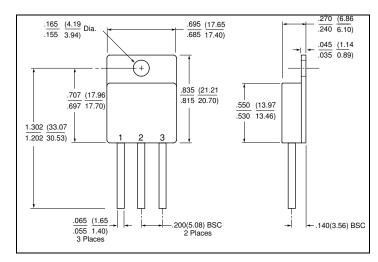
MAXIMUM RATINGSALL RATINGS ARE @ $T_c = 25 \degree C UN$	ALL RATINGS ARE @ T <sub>c</sub> = 25 °C UNLESS OTHERWISE SPECIFIED.				
RATING	SYMBOL	MAX.	UNITS		
PEAK INVERSE VOLTAGE	PIV	200	Volts		
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_{C}$ =100 $^{\circ}$ C) Single / Doubler	Ι <sub>ο</sub>	30	Amps		
Common Cathode / Common Anode		45			
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine Wave) (per leg)	I <sub>FSM</sub>	200	Amps		
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	600	pF		
MAXIMUM THERMAL RESISTANCE	$R_{ ext{ heta}JC}$		°C/W		
Dual Rectifier Common Cathode / Common Anode / Doubler		0.39			
Single Rectifier		0.77			
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Тор	-65 to + 175	°C		

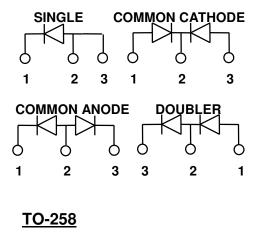
## **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 30 \text{ Amps}$ ) (per leg)			
T <sub>J</sub> = 25 °C	V <sub>f</sub>	1.09	Volts
T <sub>J</sub> = 125 °C	•1	0.93	
MAXIMUM REVERSE CURRENT (I, @ 200V PIV) (per leg)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.30	mA
T <sub>J</sub> = 125 °C		2.0	

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#### **MECHANICAL DIMENSIONS: In Inches / mm**

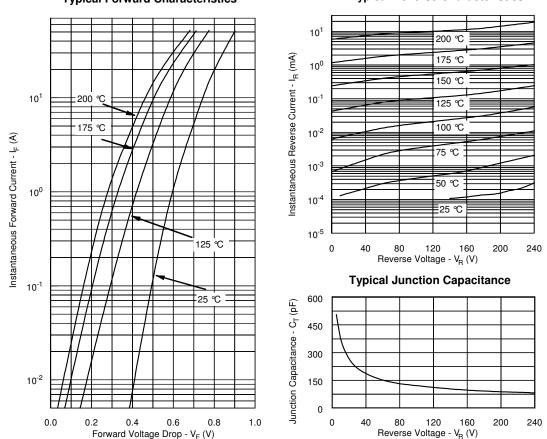




#### PINOUT TABLE

ТҮРЕ	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

Vf curves are for bare die only.



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### Typical Forward Characteristics

#### **Typical Reverse Characteristics**



### **TECHNICAL DATA**

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