

TECHNICAL DATA
DATA SHEET 6113, Preliminary

HERMETIC SCHOTTKY RECTIFIER

Applications:

- Switching Power Supply Converters
- Free-Wheeling Diodes Polarity Protection Diode

Features:

- Low Reverse Leakage Current
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long-Term Reliability
- Guaranteed Reverse Avalanche Characteristics
- Outperforms 100 Volt Ultrafast Rectifiers

Part Ordering Information:

- SMD-0.5 Package
- JANTXV Equivalent Screening Option- Add suffix "S"
- JANS Equivalent Screening Option- Add suffix "SS"

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_C = 25$ °C UNLESS OTHERWISE SPECIFIED.

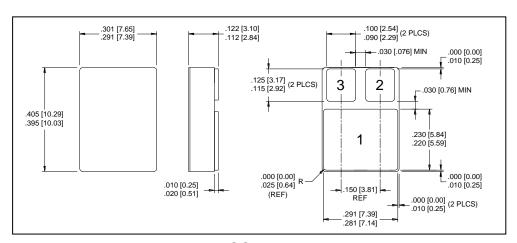
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ Tc=100 °C, 50% duty cycle	lo	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	IFSM	150	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	Ст	1000	pF
MAXIMUM THERMAL RESISTANCE	Rejc	1.25	°C/W
(Junction to Mounting Surface, Cathode)			
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 150	°C
Weight (typ)		0.9	g

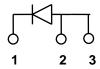
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ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_J = 25~^{\circ}C, I_F = 15A \\ I_F = 30A \\ I_F = 35A \\ T_J = 125~^{\circ}C, I_F = 15A \\ I_F = 30A \\ I_F = 35A \\ T_J = -55~^{\circ}C, I_F = 15A \\ I_F = 30A \\ I_F = 30A \\ I_F = 30A \\ I_F = 35A \\ I_F = 30A \\ I_F = 35A \\ I_F = 3$	V _F	0.82 1.01 1.11 0.71 0.92 0.99 0.90 1.05 1.08	Volts
MAXIMUM REVERSE CURRENT (Ir @ 100V PIV) $T_{J} = 25~^{\circ}\text{C}$ $T_{J} = 125~^{\circ}\text{C}$	l _r	0.07 40	mA

Mechanical Dimensions: in Inches / mm





SINGLE

LCC-5

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

SENSITRON SEMICONDUCTOR

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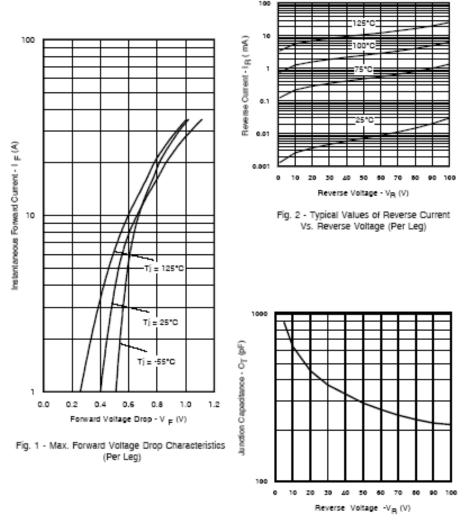
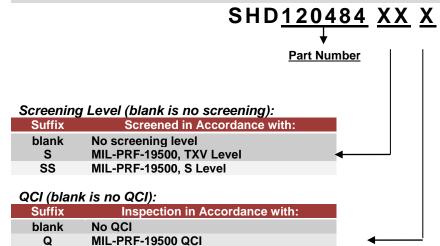


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage (Per Leg)

PART ORDERING INFORMATION:



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