



PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

**SHF1100SM
thru
SHF1103SM**

Designer's Data Sheet

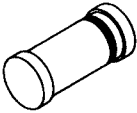
FEATURES:

- Hyper Fast Recovery: 35 nsec Maximum
- PIV to 300 Volts
- Hermetically Sealed Surface Mount Package
- Void Free Construction
- For High Efficiency Applications
- Single Chip Construction
- Replaces UES1104 Types

- TX, TXV and Space Level Screening available

**1 AMP
50-300 VOLTS
35 nsec
HYPER FAST
RECTIFIER**

**SURFACE MOUNT
ROUND TAB**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SHF1100SM SHF1101SM SHF1102SM SHF1103SM	VRRM	50	Volts
	VRWM	100	
		200	
	VR	300	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	1	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	20	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to End Tab	RθJE	28	°C/W

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RH0115 A

RMD

SHF1100SM thru SHF1103SM

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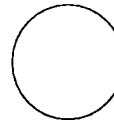
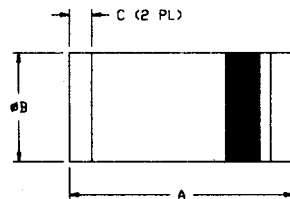
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 1 Adc, TA=25°C, 300µs Pulse)	VF	1.35	Vdc
Instantaneous Forward Voltage Drop (IF = 1 Adc, TA= - 55°C, 300µs Pulse)	VF	1.5	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	10	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	1	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	20	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	35	nsec

CASE OUTLINE:



DIMENSIONS

DIM	MIN.	MAX.
A	.190"	.210"
B	.095"	.105"
C	.005"	.025"

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

