



PRELIMINARY

SOLID STATE DEVICES, INC

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

**SHF1102SMS
thru
SHF1106SMS**

Designer's Data Sheet

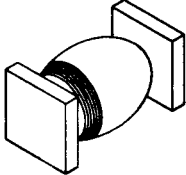
FEATURES:

- Hyper Fast Recovery: 35 nsec Maximum
- PIV to 600 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
200-600 VOLTS
35 nsec
HYPER FAST
RECTIFIER**

**SURFACE MOUNT
SQUARE TAB**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SHF1102SMS SHF1103SMS SHF1104SMS SHF1105SMS SHF1106SMS	VRRM VRWM VR	200 300 400 500 600	Volts
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

SHF1102SMS thru SHF1106SMS

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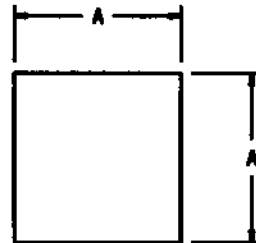
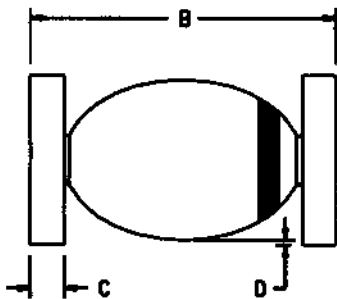
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ELECTRICAL CHARACTERISTICS

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	.127"	.140"
B	.190"	.230"
C	.022"	.028"
D	.002"	—

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

