



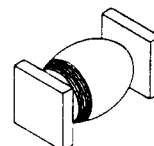
PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424SHF1202SMS
thru
SHF1206SMS**Designer's Data Sheet****FEATURES:**

- Guaranteed High Temp. trr: 60 nsec max
- Hyper Fast Recovery: 30 nsec Maximum
- PIV to 600 Volts
- Void Free Construction
- Hermetically Sealed Surface Mount Package
- Low Reverse Leakage Current
- For High Efficiency Applications
- Replaces 1N6620 Series where faster trr is required

- TX, TXV and Space Level Screening available

2 AMP
200-600 VOLTS
30 nsec
HYPER FAST
RECTIFIERSURFACE MOUNT
SQUARE TAB**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT	
Peak Repetitive Reverse and DC Blocking Voltage	SHF1202SMS SHF1203SMS SHF1204SMS SHF1205SMS SHF1206SMS	VRRM VRWM VR	200 300 400 500 600	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=55°C)	IO	2	Amps	
Surge Current (Single 8.3 ms Pulse, Half Sine Superimposed on IO, TA=55°C)	IFSM	20	Amps	
Repetitive Peak Surge Current (8.3 ms Pulse, allow junction to reach equilibrium between pulses, TA=55°C)	IFRM	6	Amps	
Operating and storage temperature	Top & Tstg	-65 to +175	°C	
Maximum Thermal Resistance Junction to End Tabs	RθJE	20	°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 #: RH0081D

RMD

SHF1202SMS
thru
SHF1206SMS

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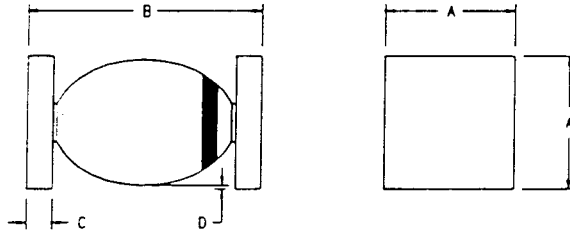
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1.2 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.7	Vdc
Instantaneous Forward Voltage Drop ($I_F = 2 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.9	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	I_R	10	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum)	I_R	1	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	C_J	20	pf
Reverse Recovery Time ($I_F = 500\text{mA}$, $I_R = 1\text{A}$, $I_{RR} = 250\text{mA}$, $T_A = 25^\circ\text{C}$) ($I_F = 500\text{mA}$, $I_R = 1\text{A}$, $I_{RR} = 250\text{mA}$, $T_A = 100^\circ\text{C}$)	t_{rr}	30 60	nsec

CASE OUTLINE:



DIMENSIONS		
DIM	MIN.	MAX.
A	.127"	.140"
B	.190"	.230"
C	.022"	.028"
D	.002"	---

Dimensions prior to soldering

TYPICAL OPERATING CURVES

