

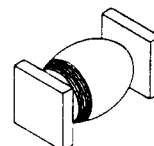


PRELIMINARY

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

PRELIMINARY



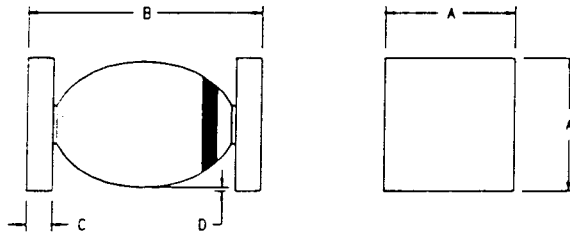
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**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ( $I_F = 1.2 \text{ Adc}$ , $T_A = 25^\circ\text{C}$ , 300 $\mu\text{s}$ Pulse)	$V_F$	1.7	Vdc
Instantaneous Forward Voltage Drop ( $I_F = 2 \text{ Adc}$ , $T_A = 25^\circ\text{C}$ , 300 $\mu\text{s}$ Pulse)	$V_F$	1.9	Vdc
Reverse Leakage Current (Rated $V_R$ , $T_A = 25^\circ\text{C}$ , 300 $\mu\text{s}$ pulse minimum)	$I_R$	10	$\mu\text{A}$
Reverse Leakage Current (Rated $V_R$ , $T_A = 100^\circ\text{C}$ , 300 $\mu\text{s}$ 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**

