

**SHF1402
 thru
 SHF1406**

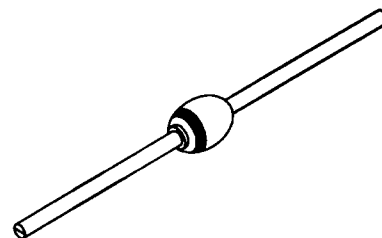
**4 AMP
 200-600 VOLTS
 30 nsec
 HYPER FAST
 RECTIFIER**

Designer's Data Sheet

FEATURES:

- Guaranteed High Temp. trr: 50nsec max
- Hyper Fast Recovery: 30 nsec Maximum
- PIV to 600 Volts
- Void Free Construction
- Hermetically Sealed
- Low Reverse Leakage Current
- For High Efficiency Applications
- Replaces 1N6626 Series where faster trr is required
- TX, TXV and Space Level Screening

AXIAL



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SHF1402 SHF1403 SHF1404 SHF1405 SHF1406	VRRM VRWM VR	200 300 400 500 600	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=55°C, L=3/8")	IO	4	Amps
Surge Current (Single 8.3 ms Pulse, Half Sine Superimposed on IO, TA=55°C)	IFSM	75	Amps
Repetitive Peak Surge Current (8.3 ms Pulse, allow junction to reach equilibrium between pulses, TA=55°C)	IFRM	20	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to leads (L=3/8")	RθJL	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 #: RH0023 A

RMD

SHF1402 thru SHF1406

PRELIMINARY



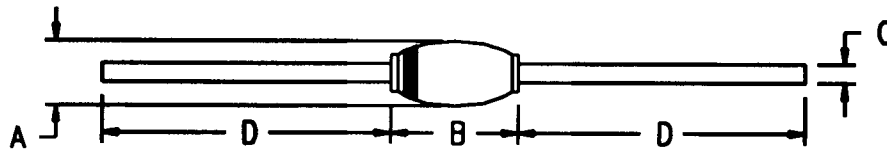
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 3 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.5	Vdc
Instantaneous Forward Voltage Drop ($I_F = 4 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.6	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	50	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	.140"	.170"
B	.170"	.230"
C	.047"	.053"
D	1.00"	---

TYPICAL OPERATING CURVES

