



# PHOTO FLASH RECTIFIER

## GHR16

VOLTAGE RANGE  
CURRENT

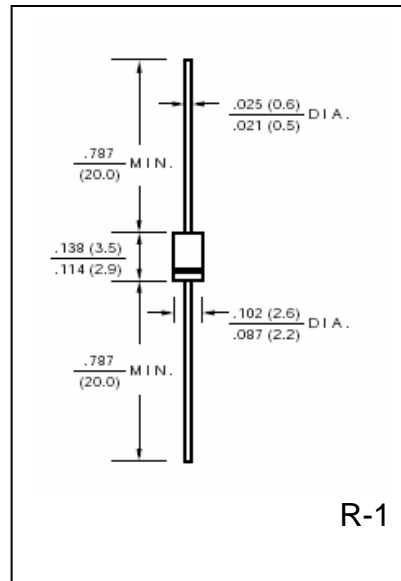
1600 Volts  
0.5 Ampere

### FEATURES

- Fast switching speed for high efficiency
- Low reverse leakage
- High forward surge current capacity
- High temperature soldering guaranteed:  
260 /10 seconds, 0.375" (9.5mm) lead length

### MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V – 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.007 ounce, 0.20 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

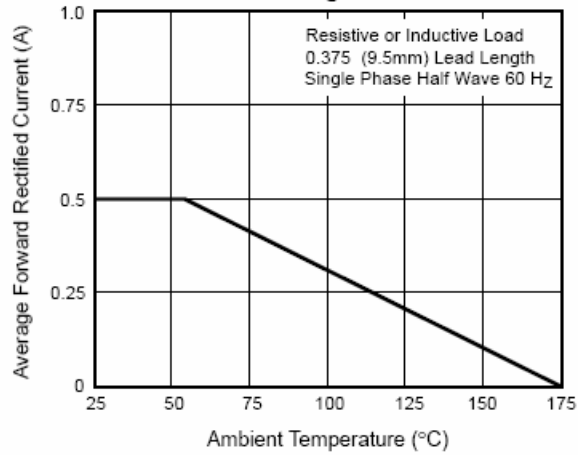
- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	GHR16	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1600	Volts
Maximum RMS Voltage	$V_{RMS}$	1120	Volts
Maximum DC Blocking Voltage	$V_{DC}$	1600	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length At $T_A = 25^\circ C$	$I_{(AV)}$	0.5	Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	$I_{FSM}$	20	Amps
Maximum Instantaneous Forward Voltage @ 0.5A	$V_F$	1.5	Volts
Maximum DC Reverse Current at Rated $T_A = 25^\circ C$	$I_R$	5.0	$\mu A$
Maximum Full Load Reverse Current, Full Cycle average 0.375" (9.5mm) lead length at $T_L = 55^\circ C$	$I_{R(AV)}$	100	$\mu A$
Maximum Reverse Recovery Time Test conditions $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$	$t_{rr}$	300	nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	$C_J$	10	pF
Operating Junction Temperature Range	$T_J$	(-65 to +175)	$^\circ C$
Storage Temperature Range	$T_{STG}$	(-65 to +175)	$^\circ C$

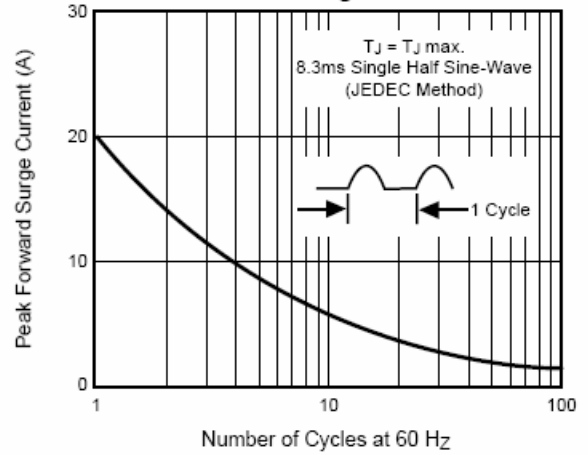


## RATINGS AND CHARACTERISTIC CURVES GHR16

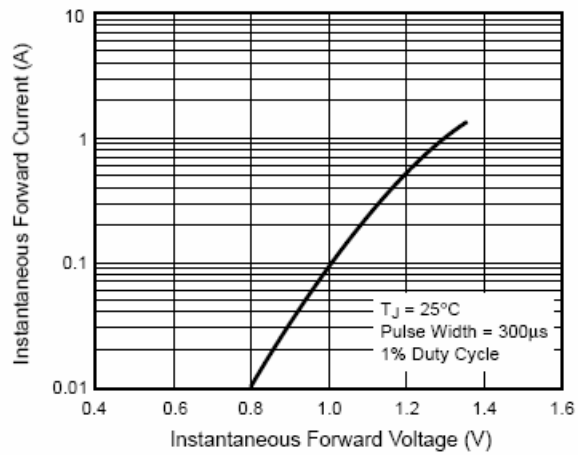
**Fig. 1 – Maximum Forward Current Derating Curve**



**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current**



**Fig. 3 – Typical Instantaneous Forward Characteristics**



**Fig. 5 – Typical Junction Capacitance**

