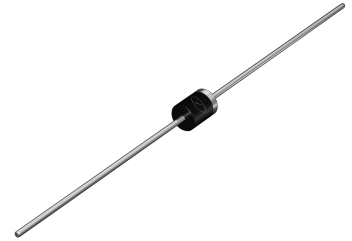


## Features

- Low forward voltage drop
- Low leakage
- High surge current capability



## Mechanical Data

- Case: Molded plastic R-1
- Epoxy: UL94V-0 flammability classification
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed:  
 260°C/10 seconds, 0.375" (9.5mm) lead lengths
- Weight: 0.007 ounce, 0.20 gram

R-1



## Absolute Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GHR16	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1600	V
Maximum RMS Voltage	$V_{RMS}$	1120	V
Maximum DC Blocking Voltage	$V_{DC}$	1600	V
Maximum Average Forward Rectified Current, 0.375" (9.5mm) Lead Length @ $T_A=55^\circ\text{C}$	$I_{(AV)}$	500	mA
Peak Forward Surge Current, 8.3 mS Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	20.0	A
Maximum Full Load Reverse Current, Full Cycle average, 0.375" (9.5mm) Lead Length @ $T_L=55^\circ\text{C}$	$I_{R(AV)}$	100	uA
Maximum Instantaneous Forward Voltage Drop at 0.5A	$V_F$	1.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage at $T_A=25^\circ\text{C}$	$I_R$	5.0	uA
Maximum Reverse Recovery Time at $I_F=0.5\text{A}$ , $I_R=1.0\text{A}$ , $I_{tr}=0.25\text{A}$	$t_{rr}$	300	nS
Typical Junction Capacitance at 4.0V, 1MHz	$C_J$	10	pF
Operating Junction Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

## Ratings and Characteristics Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

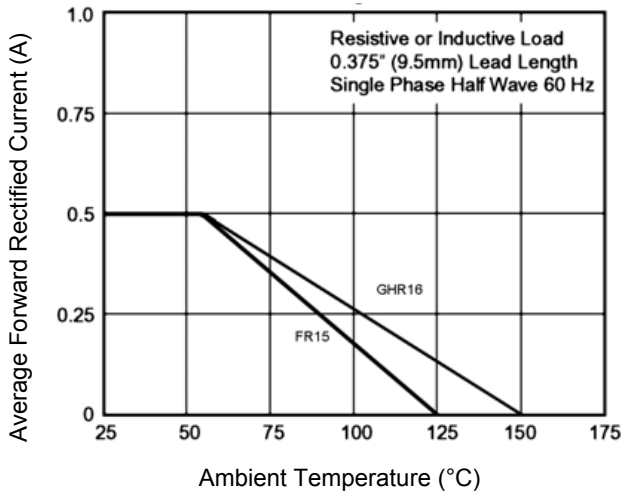


Figure 1. Maximum Forward Current Derating Curve

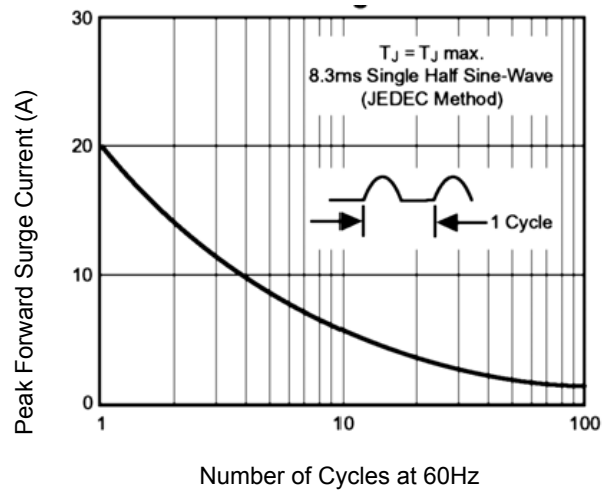


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

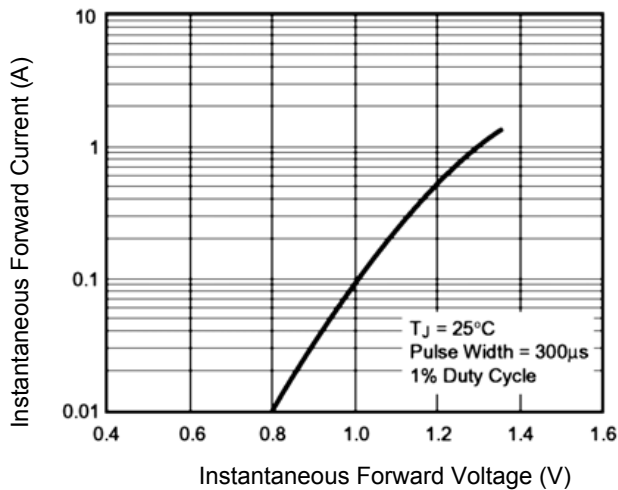


Figure 3. Typical Instantaneous Forward Characteristics

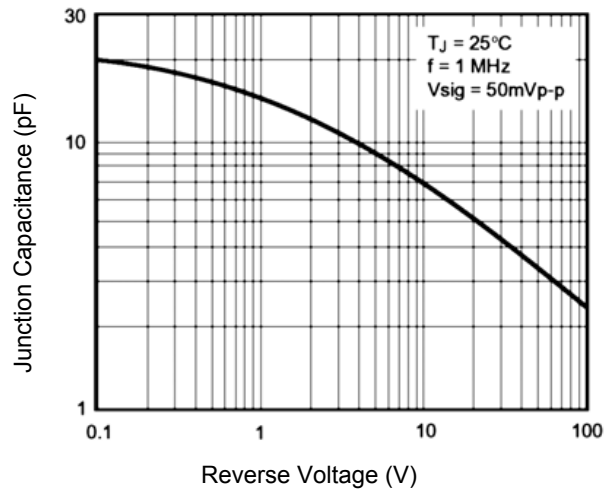
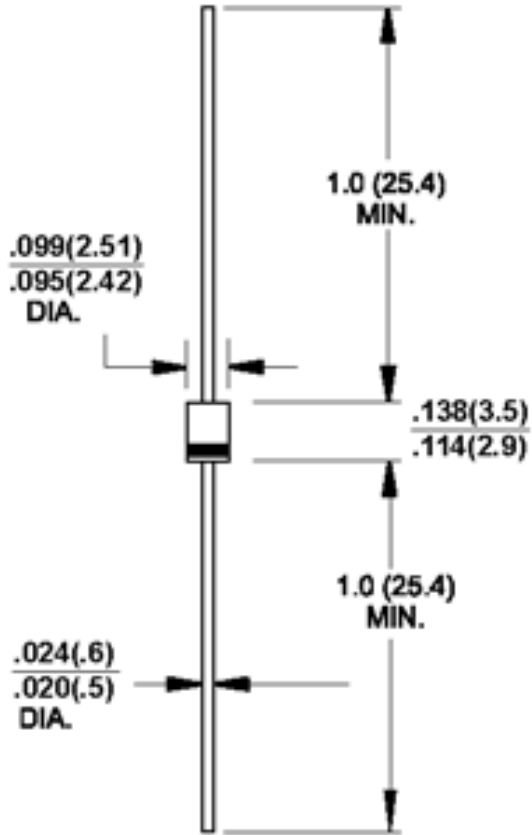


Figure 4. Typical Junction Capacitance

**Package Outline Dimensions**

R-1



**Dimensions in inches and (millimeters)**