

# GUF20A THRU GUF20M



**SINTERED GLASS JUNCTION  
FAST SWITCHING PLASTIC RECTIFIER**  
VOLTAGE:50 TO 1000V      CURRENT: 2.0A

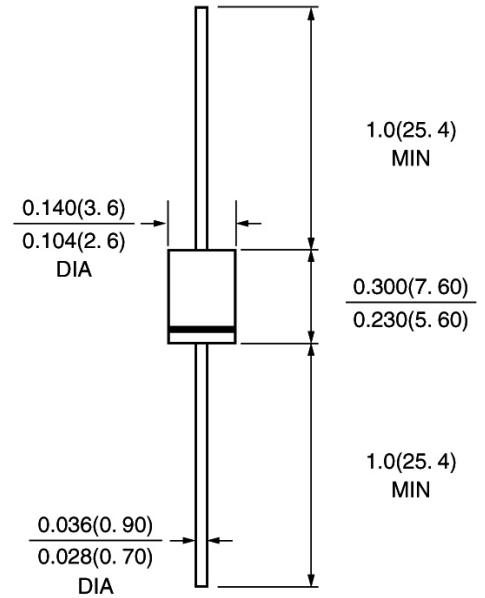
## FEATURE

High temperature metallurgically bonded construction  
Sintered glass cavity free junction  
Capability of meeting environmental standard of MIL-S-19500  
High temperature soldering guaranteed  
350°C /10sec/0.375"lead length at 5 lbs tension  
Operate at Ta =55°C with no thermal run away  
Typical Ir<0.2µA  
Low power loss, high efficient

## MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C  
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity: color band denotes cathode  
Mounting position: any

## DO-15\DO-204AC



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	GUF 20A	GUF 20B	GUF 20D	GUF 20F	GUF 20G	GUF 20J	GUF 20K	GUF 20M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	2.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	80								A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.1		1.4		1.7			V	
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	100								µA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5 100								µA µA
Maximum Reverse Recovery Time (Note 1)	Trr	50				75			nS	
Typical Junction Capacitance (Note 2)	Cj	40				50			pF	
Typical Thermal Resistance (Note 3)	R(ja)	20								°C /W
Storage and Operating Temperature Range	Tstg, Tj	-65 to +175								°C

### Note:

- Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES GUF20A THRU GUF20M

