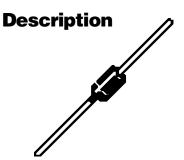
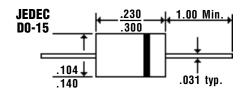


2.0 Amp ULTRAFAST SWITCHING MEGARECTIFIERS

GUF20A...20J Series



Mechanical Dimensions



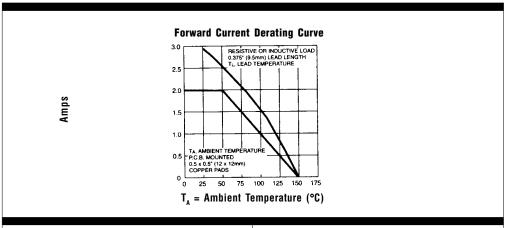
Features

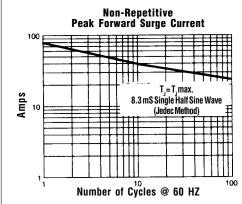
- HIGH TEMPERATURE METALLURGI-CALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 2.0 AMP OPERATION @ T_A = 55°C, WITH NO THERMAL RUNAWAY
- TYPICAL I_R < 0.2 µAmp

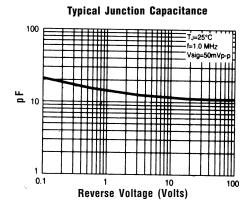
Electrical Characteristics @ 25°C. Maximum Ratings	GUF20A 20J Series						Units
	GUF 20A	GUF 20B	GUF 20D	GUF 20F	GUF 20G	GUF 20J	
Peak Repetitive Reverse VoltageV _{RRM}	50	100	200	300	400	600	Volts
RMS Reverse VoltageV _{R(rms)}	35	70	140	210	280	420	Volts
DC Blocking Voltage V_{DC}	50	100	200	300	400	600	Volts
Average Forward Rectified CurrentI _{F(av)} Current 3/8" Lead Length @ T _A = 55°C	2.0						Amps
Non-Repetitive Peak Forward Surge CurrentI _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load	80						Amp
Forward Voltage @ Rated Forward Current and 25°CV _F	< 1.1> < 1.4> 1.7						Volts
Full Load Reverse CurrentI _R (av) Full Cycle Average @ T _A = 55°C	100						μAmp
DC Reverse CurrentI _R @ Rated DC Blocking Voltage $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$			1: 10				μAmp μAmp
Typical Junction CapacitanceC _J (Note 1)	<> 50						pF
Typical Thermal ResistanceR _{e,JA} (Note 2)	20						°C/W
Typical Reverse Recovery Timet _{RR} (Note 3)	<> 75						nS
Operating & Storage Temperature RangeT _J , T _{STRG}			65 to	175			°C

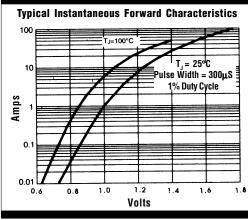


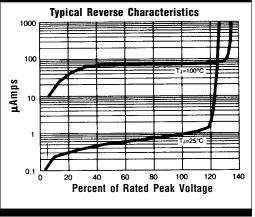
2.0 Amp ULTRA-FAST SWITCHING MEGARECTIFIERS











Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

NOTES: 1. Measured @ 1 MHZ and applied reverse voltage of 4.0V.

- 2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
- 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.