

GUF10D-E THRU GUF10M-E

**SINTERED GLASS JUNCTION
FAST SWITCHING PLASTIC RECTIFIER**
VOLTAGE: 200V to 1000V CURRENT: 1.0A

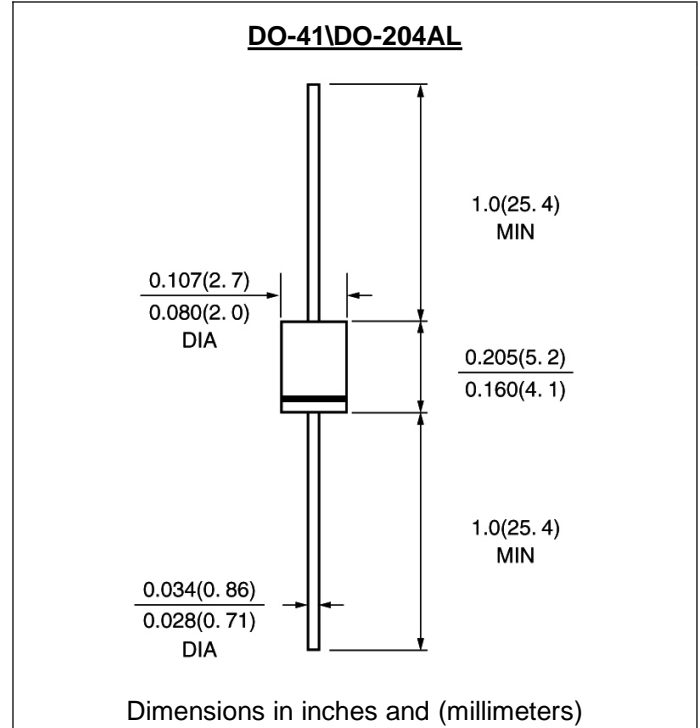


FEATURE

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
Halogen Free

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	GUF10D-E	GUF10G-E	GUF10K-E	GUF10M-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	800	1000	V
Maximum RMS Voltage	Vrms	140	280	560	700	V
Maximum DC blocking Voltage	Vdc	200	400	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30				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)	50				μA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5.0 50				μA
Maximum Reverse Recovery Time (Note 1)	Trr	50	75		nS	
Typical Junction Capacitance (Note 2)	Cj	17	15		pF	
Typical Thermal Resistance (Note 3)	Rth(ja)	50				°C /W
Storage and Operating Temperature Range	Tstg, Tj	-65 to +175				°C

Note:

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

RATINGS AND CHARACTERISTIC CURVES GUF10D-E THRU GUF10M-E

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

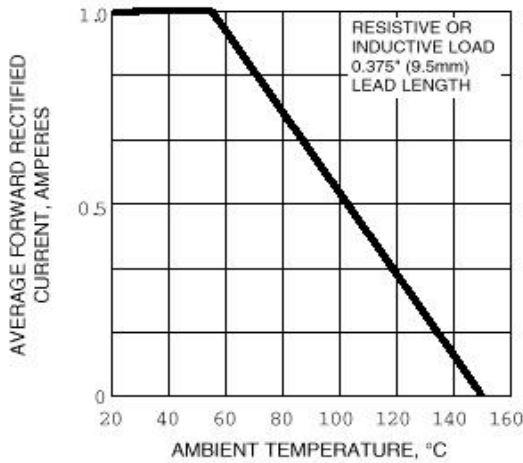


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

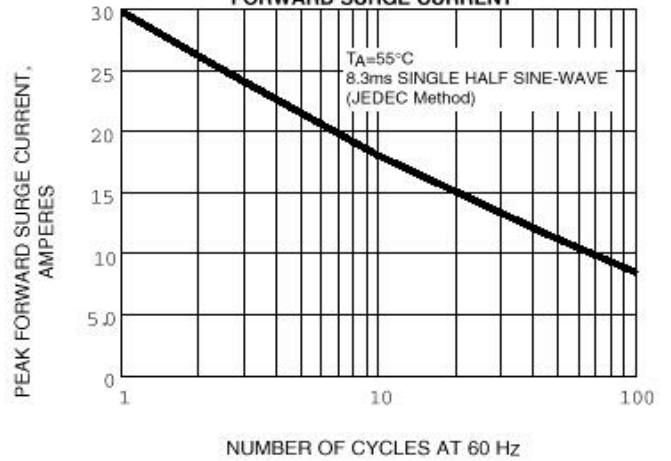


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

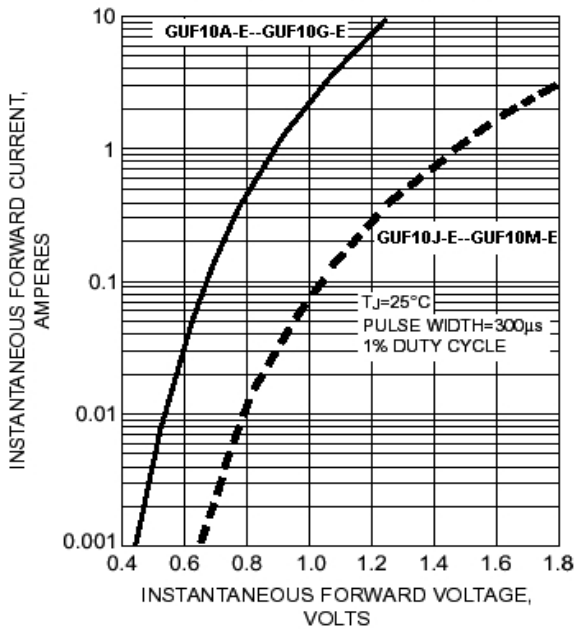


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

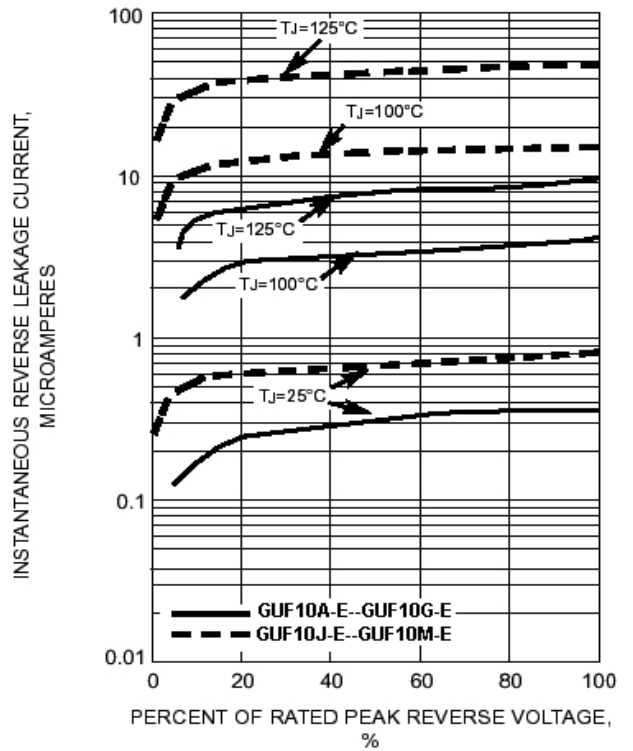


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

