



DATA SHEET

UF100GS thru UF1010GS

GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

VOLTAGE 50 to 1000 Volts **CURRENT** 1.0 Amperes

A-405

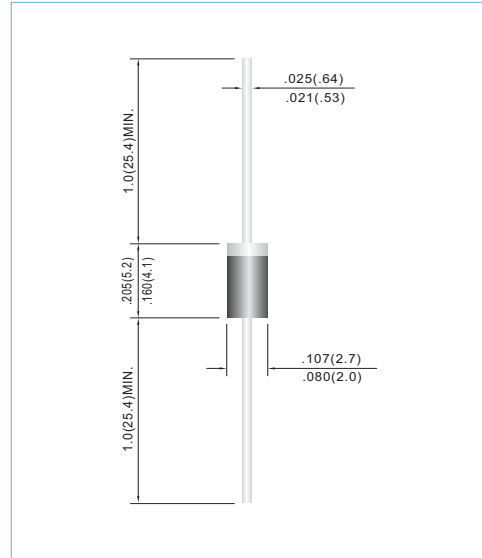
Unit: inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- Ultra Fast recovery for high efficiency.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: Molded plastic, A-405
 Terminals: Axial leads, solderable per MIL-STD-202G, Method 208
 Polarity: Band denotes cathode
 Mounting Position: Any
 Weight: 0.012 ounce, 0.336gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	UF100GS	UF101GS	UF102GS	UF104GS	UF106GS	UF108GS	UF1010GS	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Current .375"(9.5mm) lead length at TA=55°C	I _{AV}	1.0							A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30							A	
Maximum Forward Voltage at 1.0A	V _F	1.0		1.3		1.7			V	
Maximum DC Reverse Current TJ=25°C at Rated DC Blocking Voltage TJ=125°C	I _R	10				150				µA
Typical Junction capacitance (Note 1)	C _J	17								pF
Typical Thermal Resistance(Note 2)	RθJA	60								°C / W
Maximum Reverse Recovery Time (Note 3)	t _{rr}	50				100				ns
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50 TO +150							°C	

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375"(9.5mm) P.C.B. mounted.



RATING AND CHARACTERISTIC CURVES

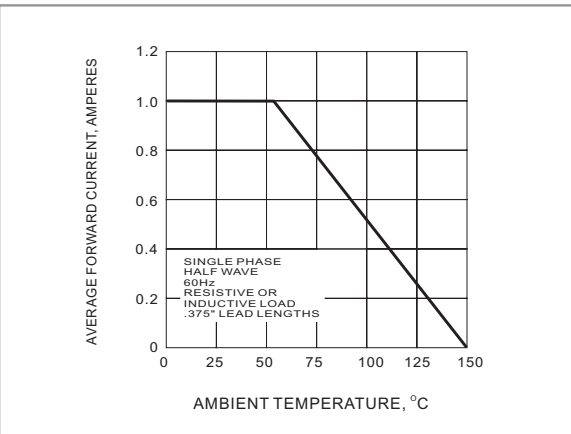


Fig. 1 FORWARD CURRENT DERATING CURVE

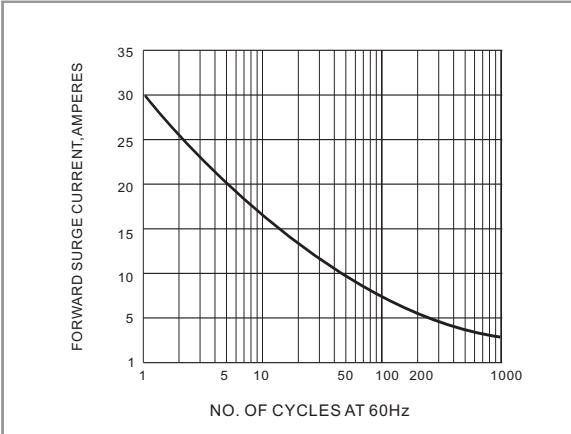


Fig. 2 PEAK FORWARD SURGE CURRENT

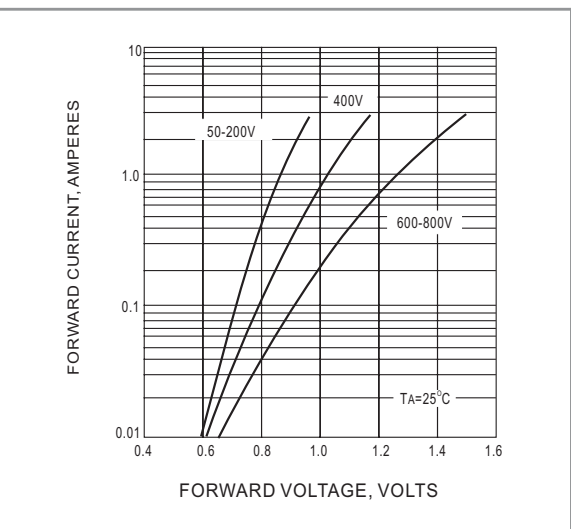


Fig. 3 FORWARD CHARACTERISTICS

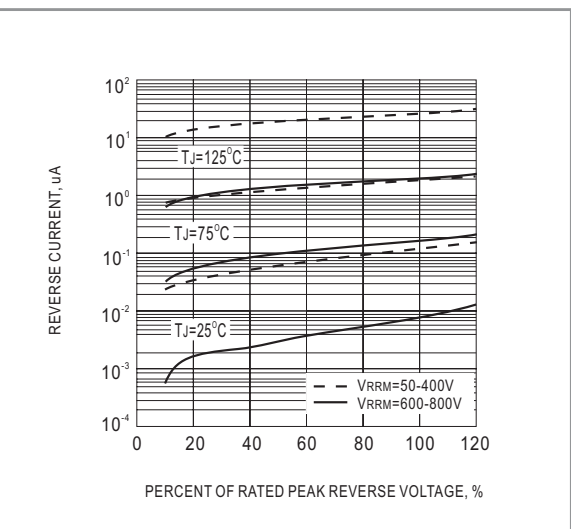


Fig. 4 TYPICAL REVERSE CHARACTERISTICS

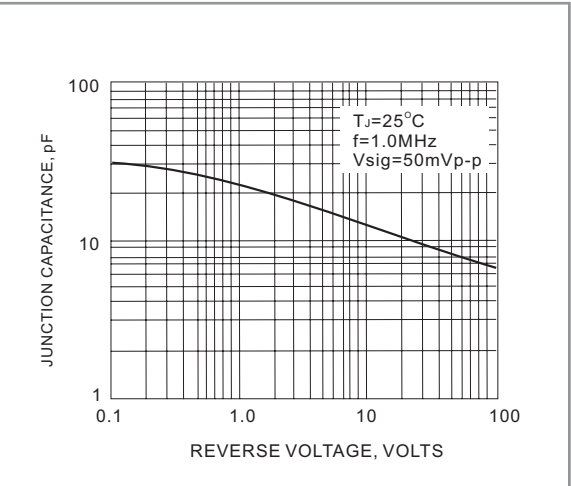


Fig. 5 TYPICAL JUNCTION CAPACITANCE