



DATA SHEET

UF100G~UF108G

GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

VOLTAGE 50 to 800 Volts **CURRENT** 1.0 Amperes

DO-41

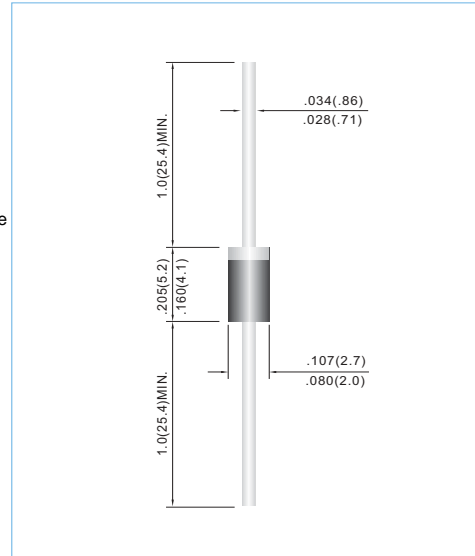
Unit: inch(mm)

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, DO-41
 Terminals: Axial leads, solderable per MIL-STD-202G, Method 208
 Polarity: Band denotes cathode
 Mounting Position: Any
 Weight: 0.013 ounce, 0.3 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =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 T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	10 150						uA
Typical Junction capacitance (Note 1)	C _J	17						pF
Typical Thermal Resistance(Note 2)	R _{θJA}	60						°C / W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	50				100		ns
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 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.
3. Reverse Recovery Time I_F=.5A , I_R=1A , I_{rr}=.25A



RATING AND CHARACTERISTIC CURVES

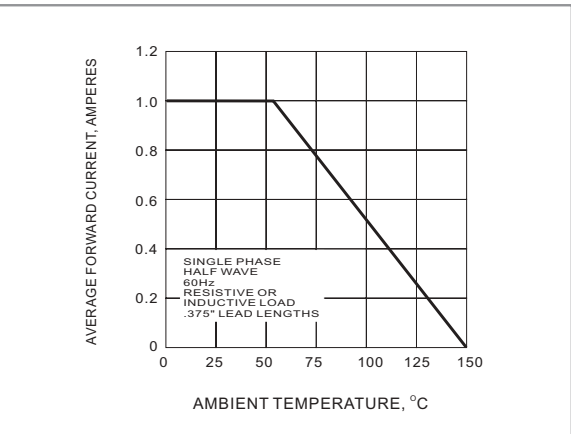


Fig. 1 FORWARD CURRENT DERATING CURVE

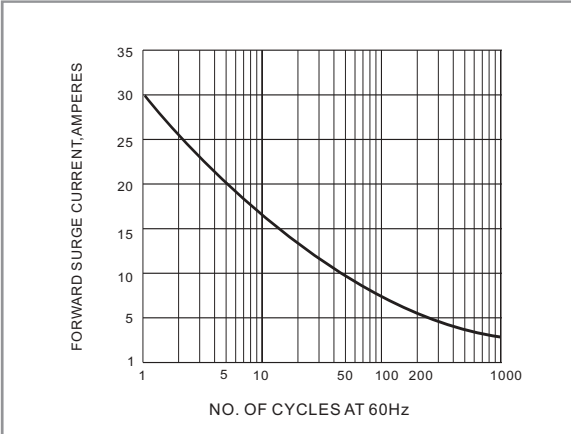


Fig. 2 PEAK FORWARD SURGE CURRENT

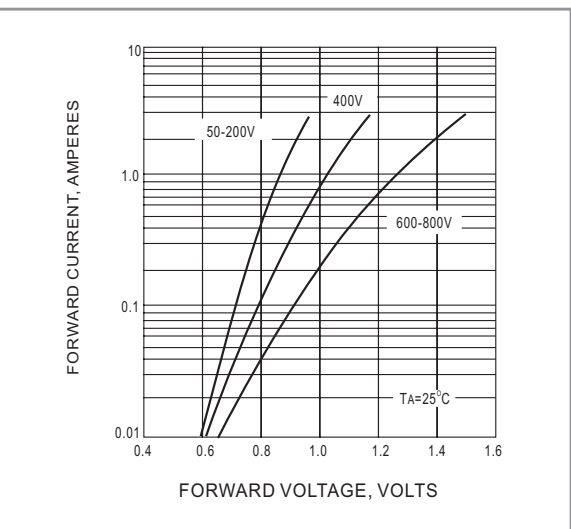


Fig. 3 FORWARD CHARACTERISTICS

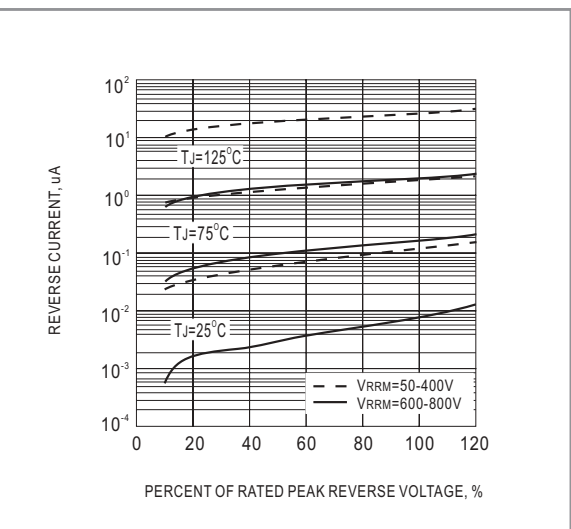


Fig. 4 TYPICAL REVERSE CHARACTERISTICS

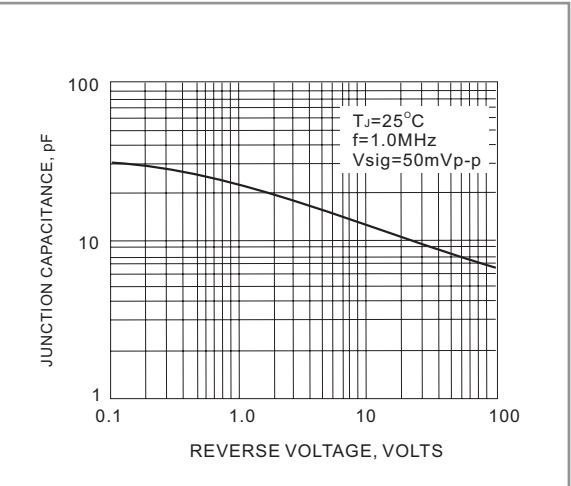


Fig. 5 TYPICAL JUNCTION CAPACITANCE