



YEA SHIN TECHNOLOGY CO., LTD

UF200G THRU UF2010G

ULTRAFAST SWITCHING RECTIFIER

VOLTAGE - 50 to 1000 Volts CURRENT - 2.0 Amperes



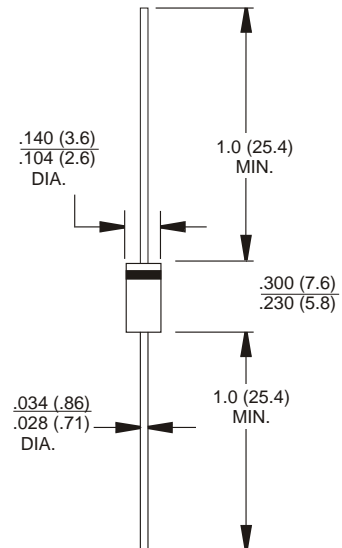
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- Void-free Plastic in DO-15 package
- Exceeds environmental standards of MIL-S-19500/228
- Ultra fast switching for high efficiency
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case: Glass passivation, DO-15
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Band denotes cathode
- Mounting Position: Any
- Weight: 0.015 ounce, 0.4 gram

DO-15 Unit:inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C J ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

	SYMBOL	U200G	U201G	U202G	U204G	U206G	U208G	U2010G	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 @T _A =55 °C .38" lead length, 60Hz, resistive or inductive load	I _(AV)	2.0							A
Peak Forward Surge Current IFM (surge) 8.3msec. single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	60							A
Maximum Forward Voltage V _F @2.0A	V _F	1.00			1.3	1.5	1.7		V
Maximum Reverse Current, @ Rated T _A =25 °C	I _R	5							µA
Reverse Voltage T _A =100 °C		100							µA
Typical Junction capacitance (Note 1)	C _J	35							pF
Typical Junction Resistance (Note 2)	R _{θJL}	45							°C/W
Reverse Recovery Time I _F =.5A, I _R =1A, I _{rr} =.25A	T _{RR}	50				75			ns
Operating 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

DEVICE CHARACTERISTICS

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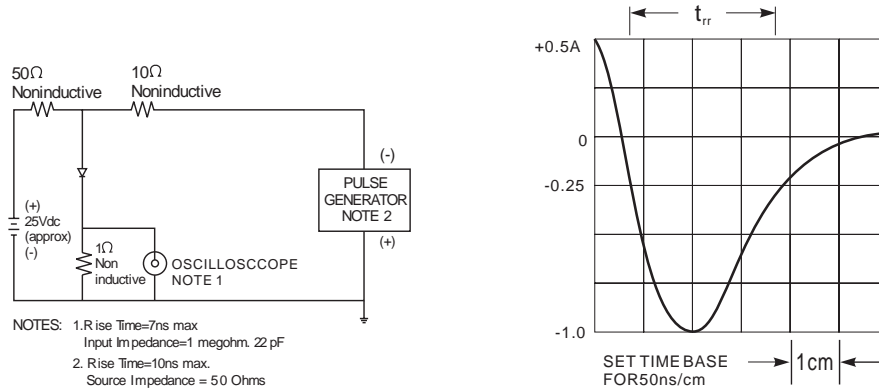


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

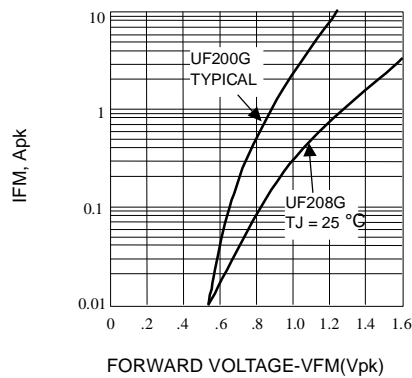


Fig. 2-FORWARD CHARACTERISTICS

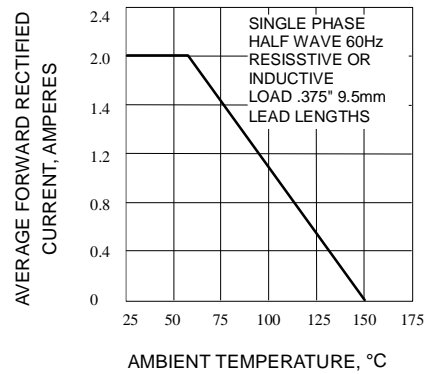


Fig. 3-FORWARD CURRENT DERATING CURVE

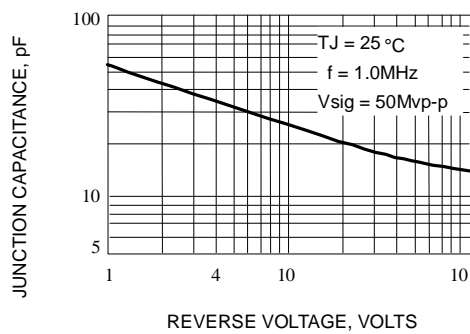


Fig. 4-TYPICAL JUNCTION CAPACITANCE

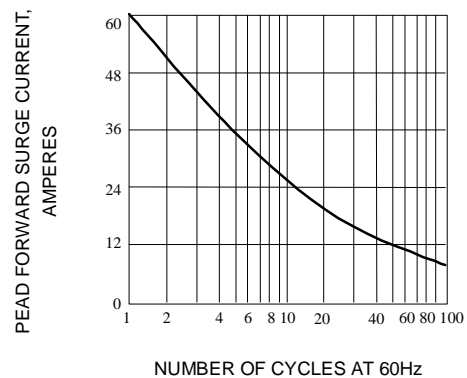


Fig. 5-PEAK FORWARD SURGE CURRENT