UF200G THRU UF208G



GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 2.0 Amperes

FEATURES

Plastic package has Underwriters Laboratory
Flammability Classification 94V-O Utilizing
Flame Retardant Epoxy Molding Compound
Glass passivated junction in DO-15 package
2.0 ampere operation at T_A=55 ¢J with no thermal runaway
Exceeds environmental standards of MIL-S-19500/228
Ultra Fast switching for high efficiency

MECHANICAL DATA

Case: Molded plastic, 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

(7.6) 300 (5.8) 230 (25.4) - .140 (3.6) 1.0 MIN (25.4) - .140 (2.6) Dimensions in inches and (millimeters)

DO-15

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

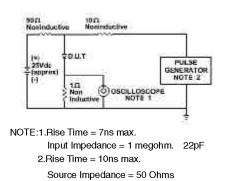
Single phase, half wave, 60Hz, resistive or inductive load.

orngie priase, nair wave, our iz, resistive or inductive load.							
	UF200G	UF201G	UF202G	UF204G	UF206G	UF208G	UNITS
Peak Reverse Voltage, Repetitive; V _{RM} :	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
DC Reverse Voltage; V _R	50	100	200	400	600	800	V
Average Forward Current, lo @ $T_A=55 cJ 3/8$ " lead	2.0						Α
length, 60 Hz, resistive or inductive load							
Peak Forward Surge Current, I _{FM} (surge) 8.3msec.	60						Α
single half sine wave superimposed on rated							
load(JECEC method)							
Maximum Forward Voltage VF @ 2.0A, 25 ¢J		1.00		1.30	1.	70	V
Maximum Reverse Current, @ Rated T _J =25 ¢J	10.0						£gA
Reverse Voltage T _J =100 ¢J	200						£gA
Typical Junction capacitance (Note 1) CJ	35						₽F
Typical Junction Resistance (Note 2) R £KJA	45						¢J/W
Reverse Recovery Time	50	50	50	50	100	100	ns
I_{F} =.5A, I_{R} =1A, I_{rr} =.25A							
Operating and Storage Temperature Range	-55 to +150						¢J

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 UF200G THRU UF208G



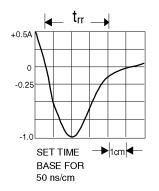
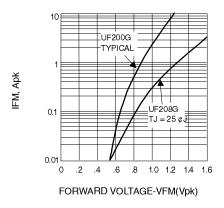


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



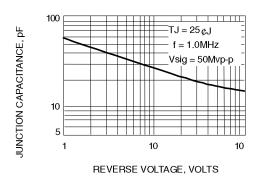
2.4 SINGLE PHASE HALF WAVE 60Hz
2.0 RESISSTIVE OR INDUCTIVE COLORD 375° 9.5mm
LEAD LENGTHS

0.8 LEAD LENGTHS

0.8 JEAN OF THE PHASE HALF WAVE 60Hz
RESISSTIVE OR INDUCTIVE OR

Fig. 2-FORWARD CHARACTERISTICS

Fig. 3-FORWARD CURRENT DERATING CURVE



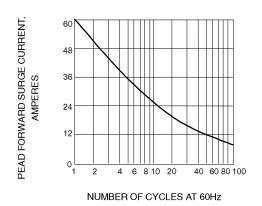


Fig. 4-TYPICAL JUNCTION CAPACITANCE

Fig. 5-PEAK FORWARD SURGE CURRENT