UF150G THRU UF158G

GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 1.5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in DO-15 package
- 1.5 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

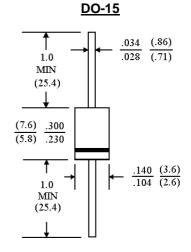
Terminals: axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

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

	UF150G	UF151G	UF152G	UF154G	UF156G	UF158G	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, Io @ T _A =55 ¢J 3/8" lead	1.5						Α
length, 60 Hz, resistive or inductive load							
Peak Forward Surge Current, I _{FM} (surge) 8.3msec.	50						Α
single half sine wave superimposed on rated							
load(JECEC method)							
Maximum Forward Voltage VF @ 1.5A, 25 ¢J	1.00 1.30 1.70			70	V		
Maximum Reverse Current, @ Rated T _J =25 ¢J	10.0						£g A
Reverse Voltage T _J =100 ¢J	150						£g A
Typical Junction capacitance (Note 1) CJ	25						₽F
Typical Junction Resistance (Note 2) R £KJA	50						¢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 UF150G THRU UF158G

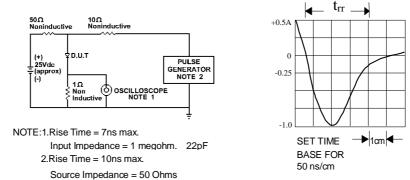


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

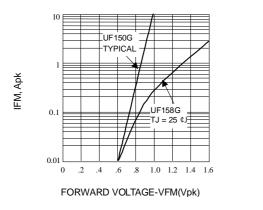


Fig. 2-FORWARD CHARACTERISTICS

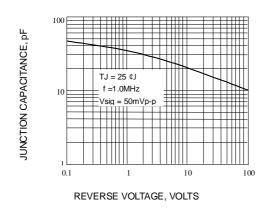


Fig. 4-TYPICAL JUNCTION CAPACITANCE

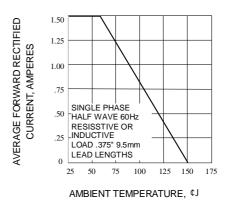


Fig. 3-FORWARD CURRENT DERATING CURVE

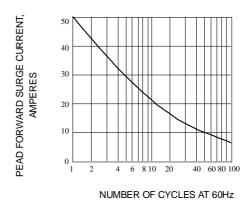


Fig. 5-PEAK FORWARD SURGE CURRENT

