1U1G THRU 1U6G

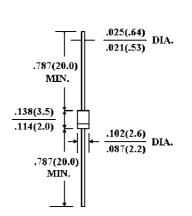
GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 1.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in R-1 package
- 1 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, R-1 Terminals: axial leads, solderable per MIL-STD-202, Method 208 Polarity: Band denotes cathode Mounting Position: Any Weight: 0.0064 ounce, 0.181 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 **¢** ambient temperature unless otherwise specified.

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

	1U1G	1U2G	1U3G	1U4G	1U5G	1U6G	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	1.0						Α
length, 60 Hz, resistive or inductive load							
Peak Forward Surge Current, I _{FM} (surge) 8.3msec.	30						Α
single half sine wave superimposed on rated							
load(JECEC method)							
Maximum Forward Voltage VF @ 1.0A, 25 ¢J		1.00		1.30	1.	70	V
Maximum Reverse Current, @ Rated T _J =25 ¢J	10.0					fg A	
Reverse Voltage T _J =100 ¢J	150						fg A
Typical Junction capacitance (Note 1) CJ	17.0						₽F
Typical Junction Resistance (Note 2) R fK JA	60						¢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
							т

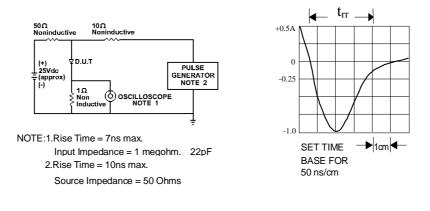
NOTES:

- 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 at 0.375"(9.5mm) lead length P.C.B. mounted

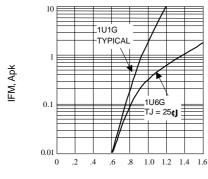


<u>R-1</u>

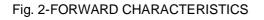
RATING AND CHARACTERISTIC CURVES 1U1G THRU 1U6G







FORWARD VOLTAGE-VFM(Vpk)



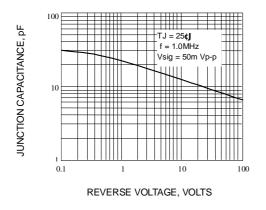


Fig. 4-TYPICAL JUNCTION CAPACITANCE

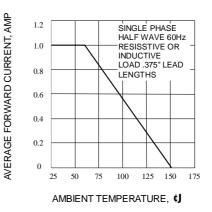


Fig. 3-FORWARD CURRENT DERATING CURVE

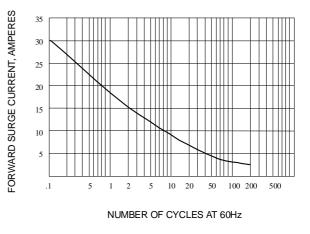


Fig. 5-PEAK FORWARD SURGE CURRENT



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