

HITANO ENTERPRISE CORP.

1F1 THRU 1F7

TECHNICAL SPECIFICATIONS OF FAST RECOVERY GLASS PASSIVATED RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * Fast switching
- * High reliability
- * Low leakage
- * High current surge
- * High current capability

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MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

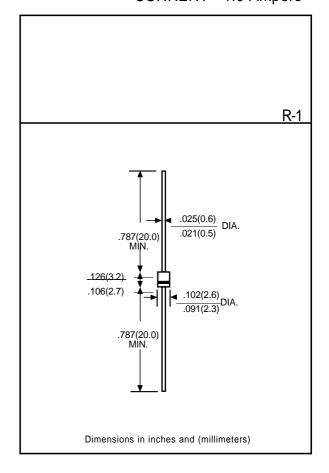
* Lead: MIL-STD-202E, Method 208 guaranteed

* Mounting position: Any* Weight: 0.19 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

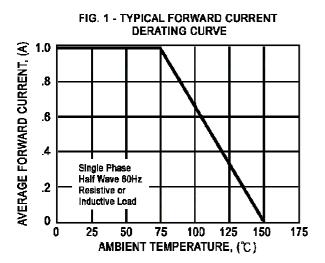


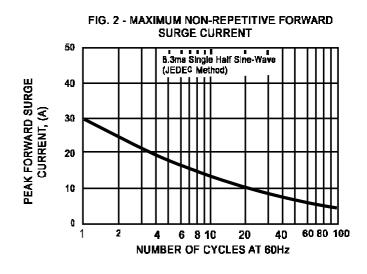
	SYMBOL	1F1	1F2	1F3	1F4	1F5	1F6	1F7	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	500	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3							Volts
Maximum DC Reverse Current	5.0								μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T L = 55°C		500							
Maximum Reverse Recovery Time (Note 1)	trr		1	50		250	5	500	nSec
Typical Junction Capacitance (Note 2)	CJ	15							pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150							٥C

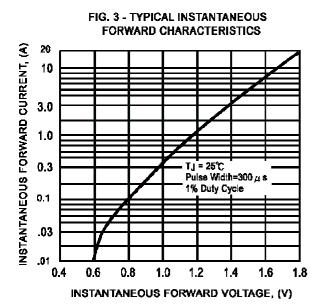
Note: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

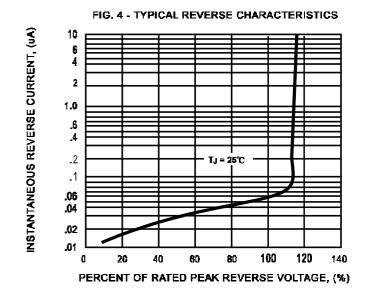
^{2.} Measured at 1 MHz and applied reverse voltage of 4.0 volts

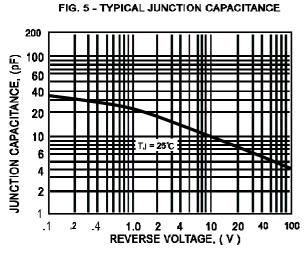
RATING AND CHARACTERISTIC CURVES (1F1 THRU 1F7)











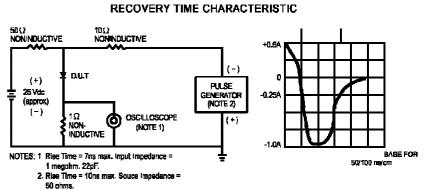


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE