JGD

R1200F THRU R2000F

HIGH VOLTAGE FSAT RECOVERY RECTIFIER

VOLTAGE RANGE
1200 To 2000 Volts
CURRENT
1.0 Ampere

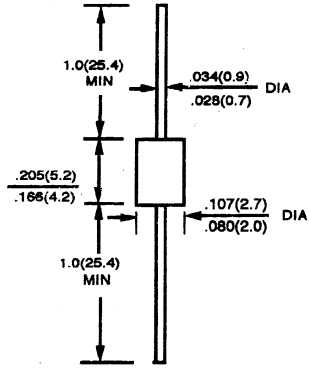
FEATURES

* Fast swiching
* low leakage
* High current capability
* High reliability
* High surge capability

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V – 0 rate flame retardant
* Lead: Axial leads, solderable per MIL – STD – 202, method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting Position: Any
* Weight: 0.34 grams

DO-41



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 H_Z, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	R1200F	R1500F	R1800F	R2000F	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200	1500	1800	2000	V
Maximum RMS Volts	V_{RMS}	840	1050	1260	1400	V
Maximum D.C Blocking Voltage	V_{DC}	1200	1500	1800	2000	V
Maximum Average Forward Rectified Current @T_A = 50℃	$I_{F(AV)}$	0.5			0.2	A
Peak Forward Surge Current, 8.3 ms single half sine – wave superimposed on rated load(JEDEC method)	I_{FSM}	25				A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.6			2.0	V
Maximum DC Reverse current at Rated DC Blocking Voltage T_A = 25℃	I_R	10.0				μA
Maximum Full Load Reverse Current Average, full Cycle . 375″, (9.5mm) lead length at T_L = 55℃		100				μA
Maximum Reverse Recovery Time (Note)	T_{RR}	500				ns
Operation and Storage Temperate Range	T_J/T_{STG}	– 65 to + 150				℃

NOTE: (1) Test Conditions: I_F = 0.5A, I_R = – 1.0A, I_{RR} = 0.25A

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RATINGS AND CHARACTERISTIC CURVES

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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

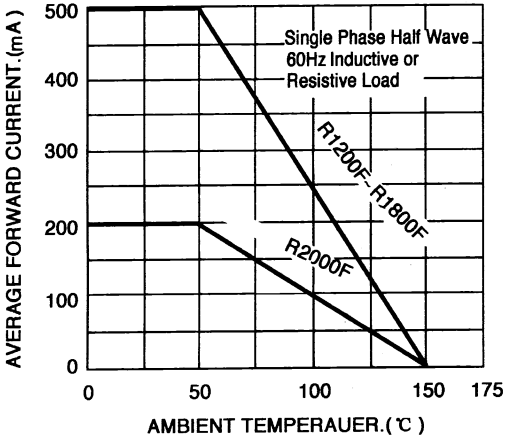


FIG.2 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT

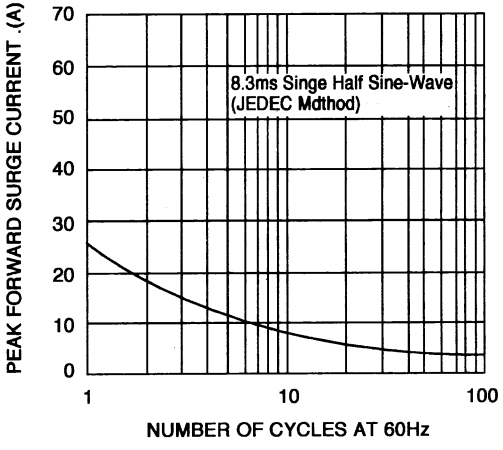
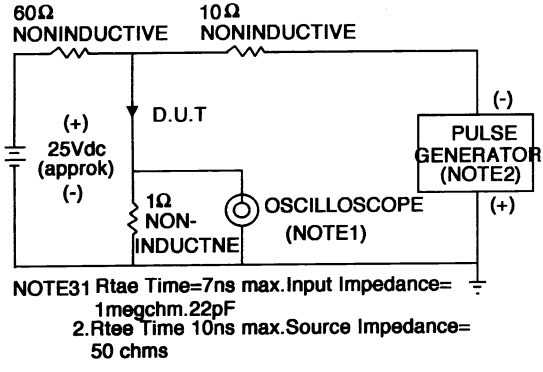


FIG.3 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTE31 Rtae Time=7ns max.Input Impedance= 1megchm.22pF

2.Rtee Time 10ns max.Source Impedance= 50 chms