R1200F THRU R2000F

HIGH VOLTAGE FAST RECOVERY RECTIFIER

GROWCHILD ELECTRONICS™

REVERSE VOLTAGE: **1200 to 2000 VOLTS**

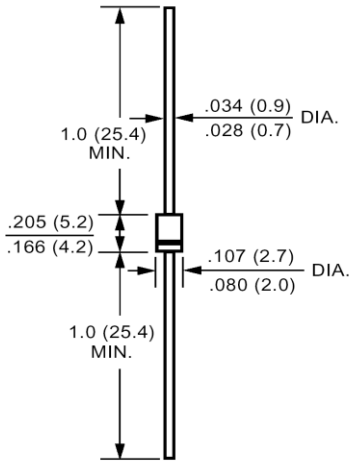
FORWARD CURRENT: **0.2 to 0.5 AMPERE**

http://www.njzrg.com

FEATURES

· Fast switching
· Low leakage
· Low forward voltage drop
· High current capability
· High current surge
· High reliability

DO-41



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-41
Epoxy: UL 94V-O rate flame retardant
Terminals: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
Polarity: Band denotes cathode
Mounting position: Any
Weight: 0.013ounce, 0.3gram

Maximum Ratings and Electrical Characteristics

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

	Symbols	*R1200F*	*R1500F*	*R1800F*	*R2000F*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200	1500	1800	2000	**Volts**
Maximum RMS Voltage	V_{RMS}	840	1050	1260	1400	**Volts**
Maximum DC Blocking Voltage	V_{DC}	1200	1500	1800	2000	**Volts**
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=50℃	$I_{(AV)}$	0.5			0.2	**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30				**Amp**
Maximum Forward Voltage at 0.5/0.2A	V_F	2.5			4	**Volts**
Maximum Reverse Current at Rated DC Blocking Voltage T_A=25℃	I_R	5.0				**uAmp**
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at T_L = 55℃		100				**uAmp**
Maximum Reverse Recovery Time (Note 1)	T_{RR}	500				**nS**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150				**℃**

NOTES:

1- Reverse Recovery Test Conditions：I_F=.5A，I_R=1A，I_{RR}=.25A.

R1200F THRU R2000F

HIGH VOLTAGE FAST RECOVERY RECTIFIER

GROWCHILD ELECTRONICS™

http://www.njzrg.com

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

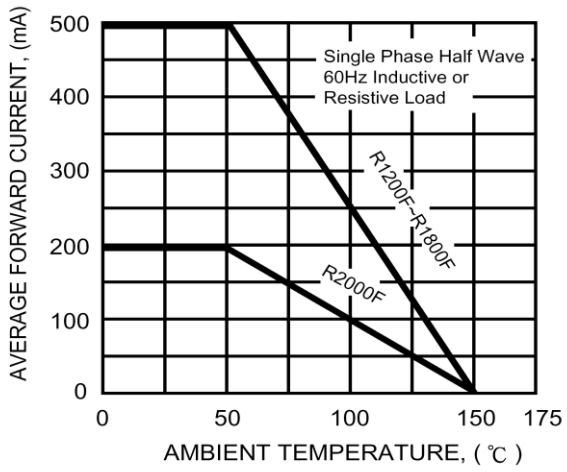


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

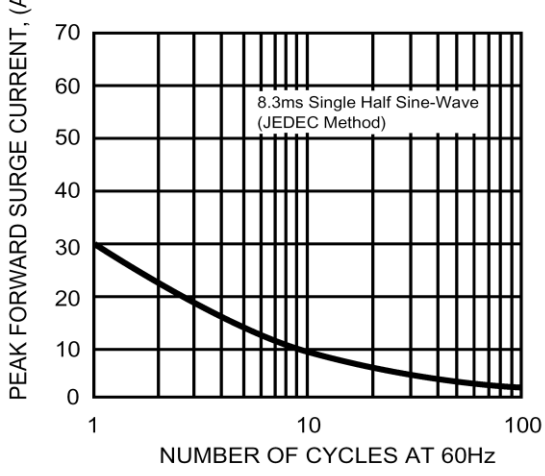
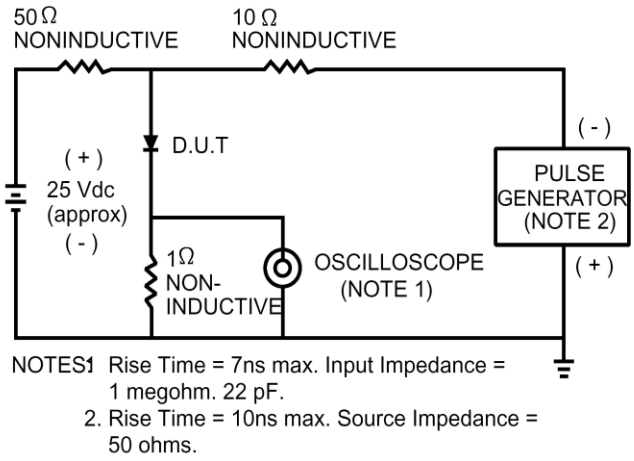


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time = 7ns max. Input Impedance = 1 megohm. 22 pF.
2. Rise Time = 10ns max. Source Impedance = 50 ohms.