RFC2K THRU RFC4K

0.2AMPS. HIGH VOLTAGE FAST RECOVERY RECTIFIERS

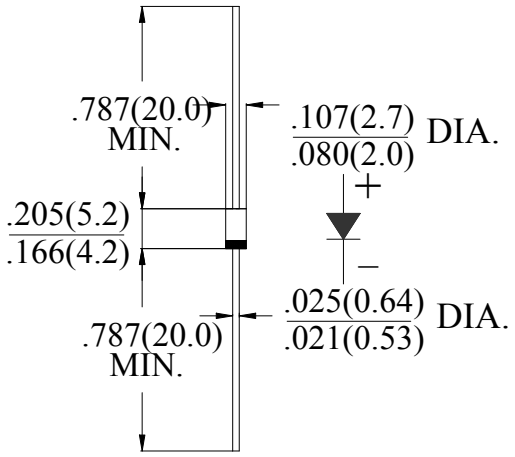
FEATURES

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

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD- 202E, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.33 grams

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

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

Type Number	SYMBOL	RFC2K	RFC3K	RFC4K	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	2000	2400	3000	V
Maximum RMS Voltage	V_{RMS}	1400	1680	2100	V
Maximum DC Blocking Voltage	V_{DC}	2000	2400	3000	V
Maximum Average Forward rectified Current at T_A=50°C	$I_{F(AV)}$	0.2			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	30			A
Maximum Instantaneous forward Voltage at 0.2A DC	V_F	4.0	5.0	6.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=25°C	I_R	5.0			μA
Maximum Full Load Reverse Current Average Full Cycle .375”(9.5mm) lead length at T_L=55°C		100			
Maximum Reverse Recovery Time (Note)	T_{RR}	500			nS
Storage Temperature	T_{STG}	-55 to +150			°C
Operation JunctionTemperature	T_J	-55 to +125			°C

Note:

Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

RATING AND CHARACTERISTIC CURVES (RFC2K THRU RFC4K)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

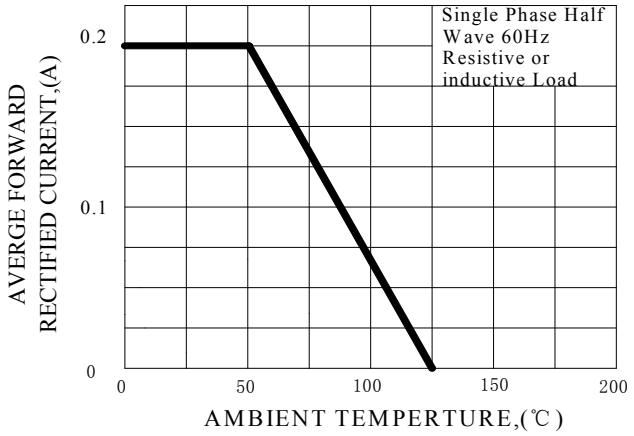


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

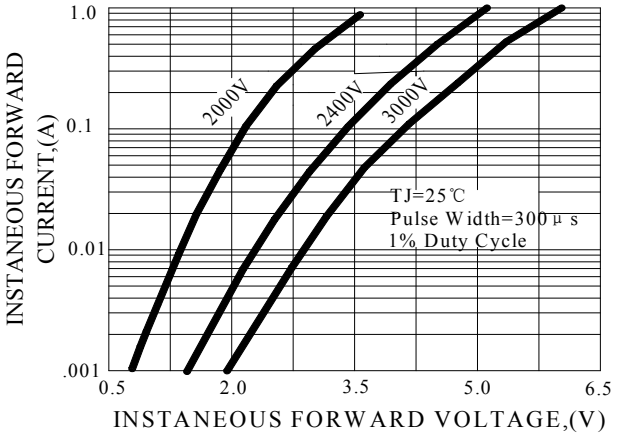


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

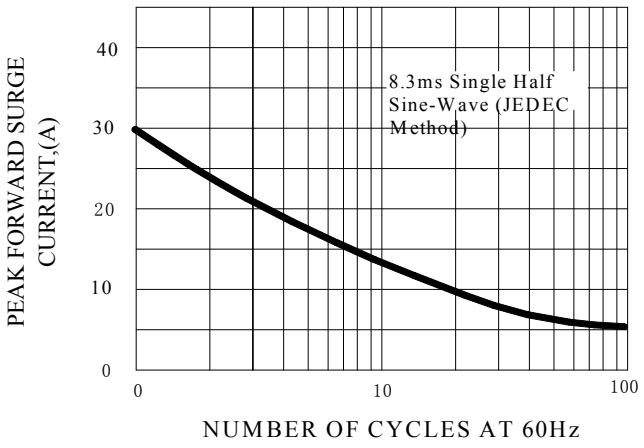


FIG.4-TYPICAL REVERSE CHARACTERISTICS

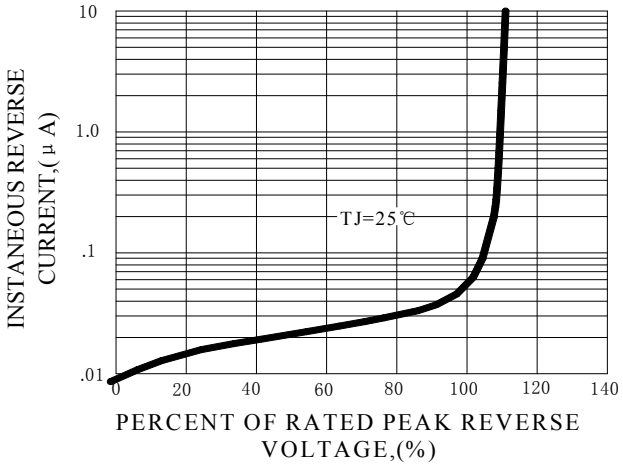
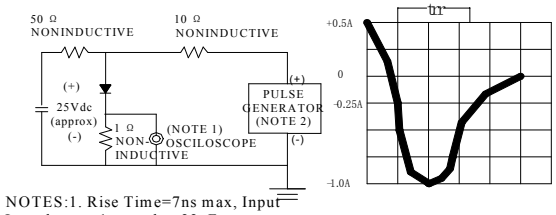


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



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

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