

R1200FG THRU R2000FG

High Voltage Glass Passivated Fast Recovery Rectifiers Reverse Voltage 1200 to 2000V Forward Current 0.2 to 0.5A

Features

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





Mechanical Data

• Case: Molded plastic DO-204AL (DO-41)

• Epoxy: Device has UL flammability classification 94V-O

· Lead: MIL-STD-202E method 208C guaranteed

· Mounting Position: Any

• Weight: 0.012 ounce, 0.335 gram

Absolute Maximum Ratings and Electrical Characteristics

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

Parameter	Symbol	R1200FG	R1500FG	R1800FG	R2000FG	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1200	1500	1800	2000	V
Maximum RMS Voltage	V _{RMS}	840	1050	1260	1400	V
Maximum DC Blocking Voltage	V _{DC}	1200	1500	1800	2000	V
Maximum Average Forward Rectified Current at T _A =50°C	I _{F(AV)}	500 200			200	mA
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30.0				А
Maximum Instantaneous Forward Voltage at 0.5/0.2A DC	V _F	2.5			4.0	٧
Maximum DC Reverse Current at Rated DC Blocking Voltagee @T _A =25°C	I _R	5.0				uA
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) Lead Length at T _A =55°C	I _{R(AV)}	100				uA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	500				nS
Operating Junctionand Storage Temperature Range	T_{J},T_{STG}	-55 to +150				°C

Note

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

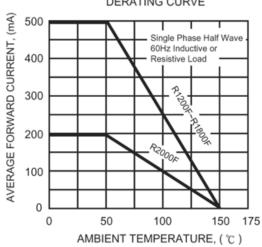


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Ratings and Characteristics Curves (T_A = 25°C unlessotherwise noted)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE



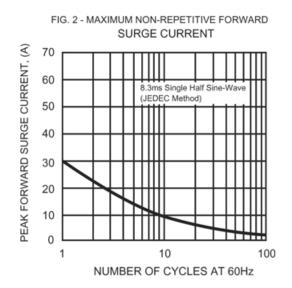
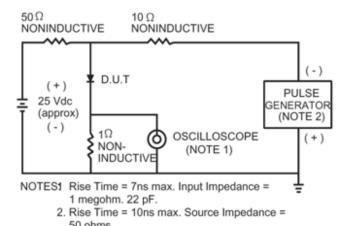
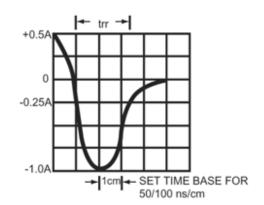


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



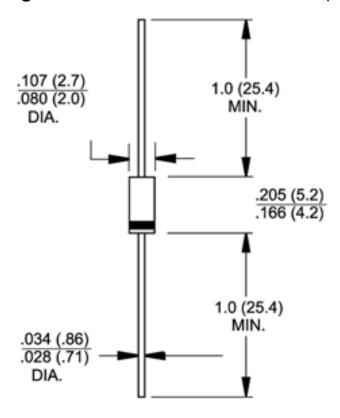




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Package Outline Dimensions DO-204AL (DO-41)



Dimensions in inches and (millimeters)

Doc.USR1200FG-R2000FGxSD2.0

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