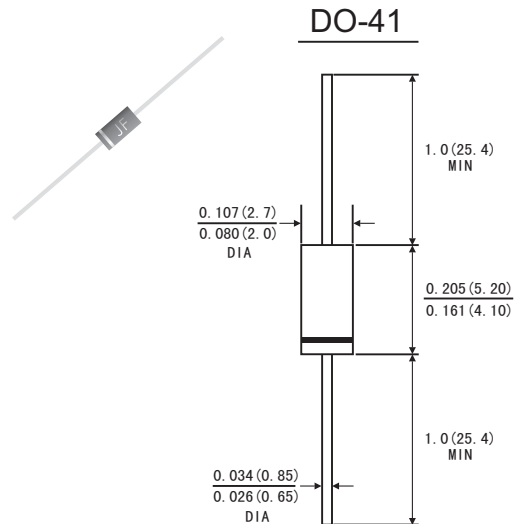


FEATURES

- Glass passivated junction
- Plastic package has Underwriters Laboratory Flammability
- Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: JEDEC DO-41 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.012ounce, 0.33 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Dimensions in inches and (millimeters)

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

		Symbols	RGP 10A	RGP 10B	RGP 10D	RGP 10G	RGP 10J	RGP 10K	RGP 10M	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	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length at TA=55°C		IAV	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A		VF	1.3							Volts
Maximum DC Reverse Current at rated DC blocking voltage	Ta=25°C	IR	5.0							μA
	Ta=125°C		30							
	Ta=150°C		50							
Maximum reverse recovery time(Note1)		trr	150				250	500		ns
Typical junction capacitance(Note2)		CJ	15.0							pF
Typical thermal resistance (Note 3)		RθJA	55.0							°C/W
Operating junction and storage temperature range		TJ TSTG	-65 to +175							°C

Note: 1. Test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts D.C

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B. Mounted.

RATINGS AND CHARACTERISTIC CURVES RGP10A THRU RGP10M

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

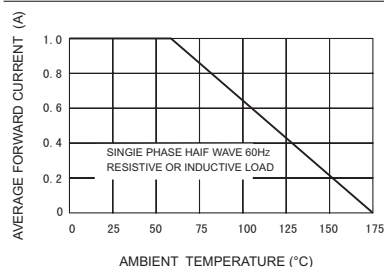


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

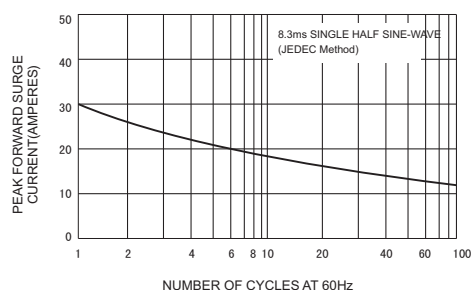


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

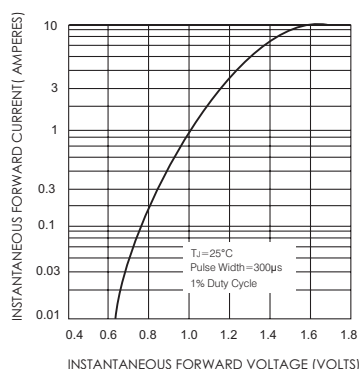


FIG.4-TYPICAL REVERSE CHARACTERISTICS

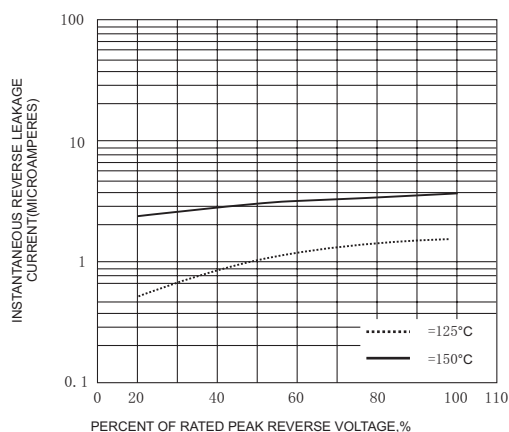


FIG.5-TYPICAL JUNCTION CAPACITANCE

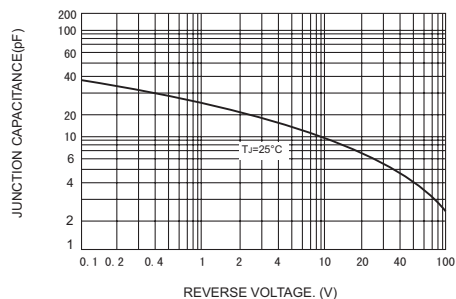


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

