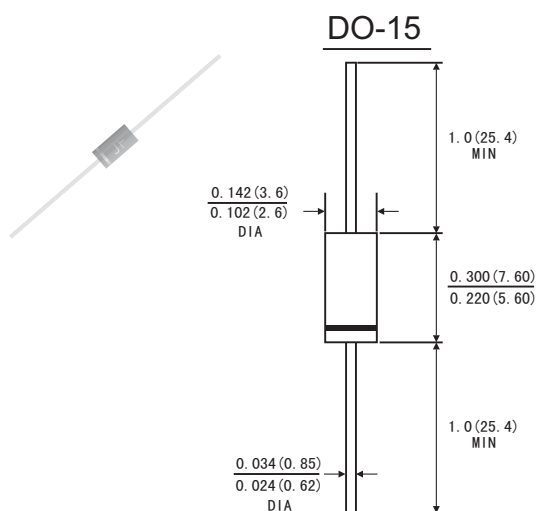


FEATURES

- 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-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.39 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(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 15A	RGP 15B	RGP 15D	RGP 10G	RGP 15J	RGP 15K	RGP 15M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.5							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0							Amps
Maximum Instantaneous Forward Voltage at 1.5 A	V_F	1.3							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_a=25^{\circ}C$	IR							μA
	$T_a=125^{\circ}C$								
	$T_a=150^{\circ}C$								
Maximum reverse recovery time (Note 1)	t_{rr}	150			250	500		ns	
Typical junction capacitance (Note 2)	C_J	25.0							pF
Typical thermal resistance (Note 3)	$R_{\theta JA}$	45.0							°C/W
Operating junction and storage temperature range	T_J T_{STG}	-55 to +150							°C

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

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 RGP15A THRU RGP15M

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

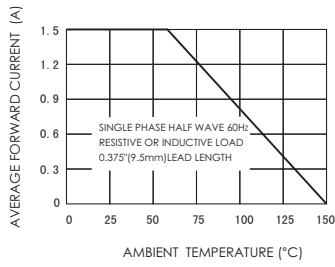


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

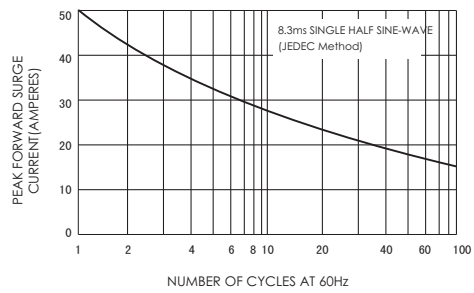


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

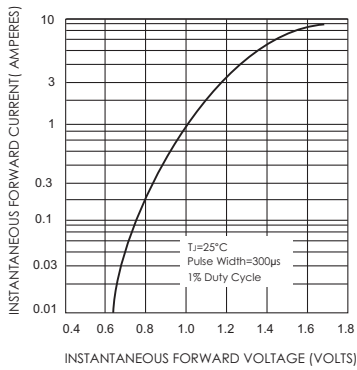


FIG.4-TYPICAL REVERSE CHARACTERISTICS

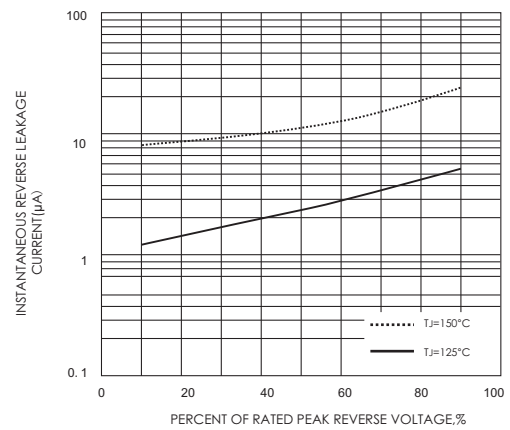


FIG.5-TYPICAL JUNCTION CAPACITANCE

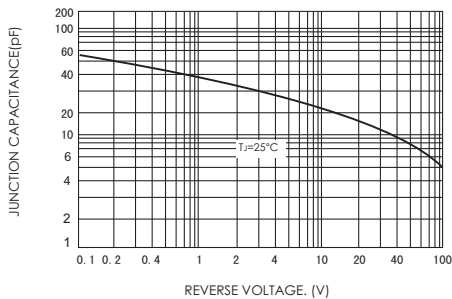


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

