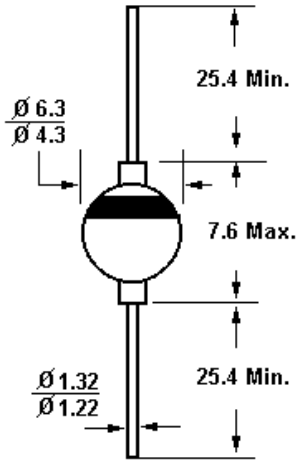
RG3J-10

GLASS PASSIVATED JUNCTION RECTIFIER
Forward Current – 3.0 Amperes



Dimensions in mm

Features

- Cavity-free glass passivated junction
- High temperature metallurgically bonded construction
- High temperature soldering guaranteed: 350°C/10 seconds,0.375”(9.5mm) lead length, 5 lbs, (2.3kg) tension

Mechanical Data

- **Case:** Solid glass body.
- **Terminals:** Solder plated axial leads, solderable per MIL-STD-750.Method 2026.
- **Polarity:** Color band denotes cathode end.
- **Mounting Position:** Any
- **Weight:** 0.04 ounce, 1.1 grams.

Absolute Maximum Ratings and Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	Value	Units
Maximum repetitive peak reverse voltage	V_{RRM}	400	Volts
Maximum RMS voltage	V_{RMS}	280	Volts
Maximum DC blocking voltage	V_{DC}	400	Volts
Maximum average forward rectified current 0.375” (9.5mm) lead length at T_A=70 °C	$I_{F(AV)}$	3	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	125	Amps
Maximum full load reverse current, full cycle average, 0.375”(9.5mm)lead length at T_A=70 °C	$I_{R(AV)}$	150	μA
Maximum instantaneous forward voltage at 3A T_A = 25 °C	V_F	1.3	Volts
Maximum DC reverse current at rated DC blocking voltage T_A = 25 °C	I_R	5	μA
Maximum DC reverse current at rated DC blocking voltage T_A = 175°C	I_R	300	μA
Typical junction capacitance at 4V, 1MHz	C_J	40	pF
Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	20 10	°C/W
Operating junction temperature range	T_J	-65 to+175	°C
Storage temperature range	T_S	-65 to+200	°C

Notes: (1) Thermal resistance from junction to ambient and from junction to lead at 0.375”(9.5mm) lead length with both leads attached between heat sink.

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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

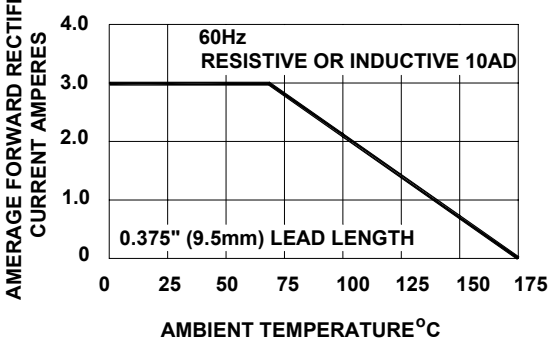

FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

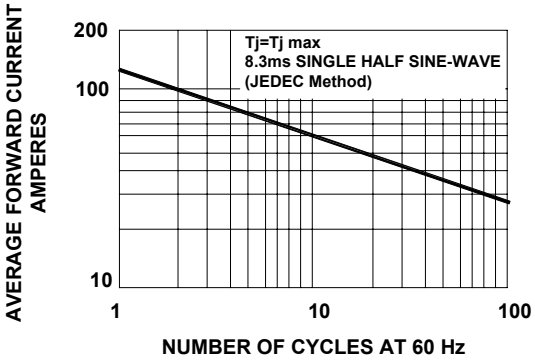

FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

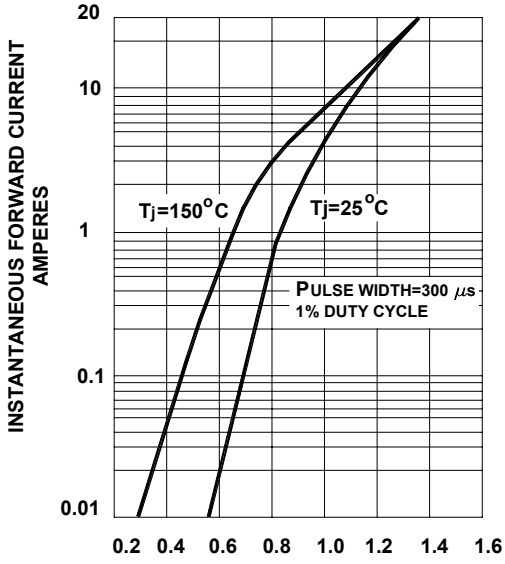

FIG.4 TYPICAL REVERSE CHARACTERISTICS

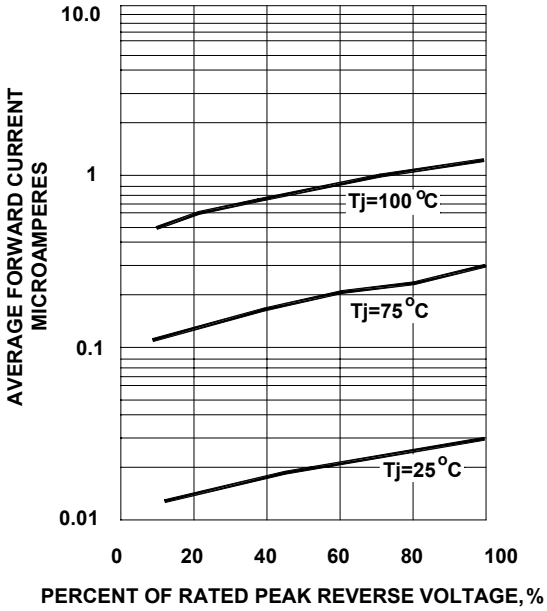

FIG.5 TYPICAL JUNCTION CAPACITANCE