RGP10A THRU RGP10M

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



NOTE: Lead diameter is 0.026 (0.66) for suffix "E" part numbers 0.023 (0.58)

Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- For use in high frequency rectifier circuits
- Fast switching for high efficiency
- 1.0 Ampere operation at T_A=55°C with no thermal runaway
- Typical IR less than 0.1µA
- High temperature soldering guaranteed: 350°C/10 seconds 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AL molded plastic over glass body **Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026 **Polarity:** Color band denotes cathode end **Mounting Position:** Any

Weight: 0.012 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.									
	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 T _A =55°C	l(AV)	1.0							Amp
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 1.0A	VF	1.3						Volts	
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length Ta≃55°C	IR	100.0							μA
Maximum DC reverse currentTA=25°Cat rated DC blocking voltageTA=150°C	IR	5.0 200.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr		150			250	50	00	ns
Typical junction capacitance (NOTE 2)	CJ	15.0						pF	
Typical thermal resistance (NOTE 3)	Røja	55.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175							°C

NOTES:

(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, In=0.25A

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

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

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