



RGF15A THRU RGF15M

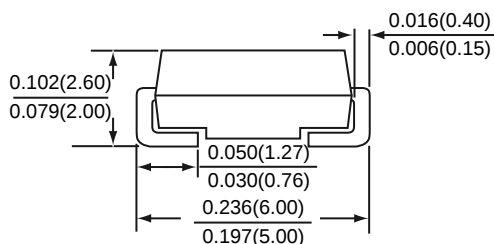
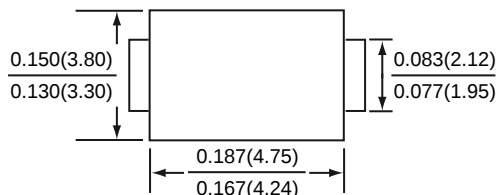
SURFACE MOUNT GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5 Amperes

PATENTED

DO-214AA



*Dimensions in inches and (millimeters)

SUPEREX II™



FEATURES

- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Ideal for surface mount automotive applications
- * Fast switching for high efficiency
- * Built-in strain relief
- * Easy pick and place
- * High temperature soldering guaranteed: 260°C/10 seconds, at terminals
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic over passivated chip

Terminals : Solder plated , solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 0.003 ounces , 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	RGF15										UNITS
		A	B	D	G	J	JA	K	KA	M	MA	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	600	800	800	1000	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	420	560	560	700	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	600	800	800	1000	1000	Volts
Maximum average forward rectified current TA=75°C	I (AV)	1.5										Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50										Amps
Maximum instantaneous forward voltage at 1.5 A	VF	1.3										Volts
Maximum full load reverse current, full cycle average , 0.375" (9.5mm) lead lengths at TA=55°C	IR (AV)	100										uA
Maximum DC reverse current at rated DC blocking voltage TA=25°C TA=125°C TA=150°C	IR	5 30 80										uA
Maximum reverse recovery time (NOTE 1)	trr	150				250	150	500	300	500	300	nS
Typical junction capacitance (NOTE 2)	CJ	25										pF
Typical thermal resistance (NOTE 3)	RθJA RθJL	55 18										°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175										°C

NOTES : (1) Reverse recovery test condition : IF 0.5A, IR=1.0A, Irr=0.25A

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

(3) Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

