



GF20A THRU GF20M

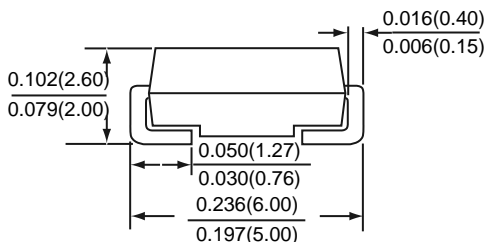
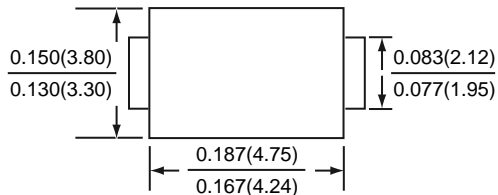
SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

PATENTED

DO-214AA



*Dimensions in inches and (millimeters)

SUPEREX IITM



FEATURES

- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Ideal for surface mount automotive applications
- * 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	GF20							UNITS
		A	B	D	G	J	K	M	
Maximum repetitive 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 TA=75°C	I (AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	65							Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5							uA
TA=25°C		30							
TA=125°C		80							
Typical junction capacitance (NOTE 1)	CJ	25							pF
Typical thermal resistance (NOTE 2)	RθJA RθJL	53 16							°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175							°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 (2) 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

