



# GP15A THRU GP15M

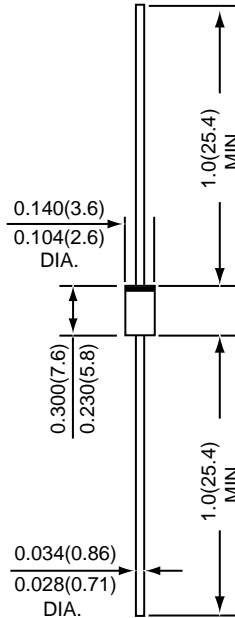
## SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5 Amperes

**PATENTED**

DO-204AC



\*Dimensions in inches and (millimeters)

**SUPEREX II**<sup>TM</sup>



### FEATURES

- \* GPRC (Glass Passivated Rectifier Chip) inside
- \* Glass passivated cavity-free junction
- \* Capable of meeting environmental standards of MIL-S-19500
- \* 1.5 Amperes operation at TA=55°C with no thermal runaway
- \* Typical IR less than 0.1uA
- \* High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

### MECHANICAL DATA

**Case :** JEDEC DO-204AC 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 :** 0.015 ounces , 0.4 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GP15							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 0.375" (9.5mm) lead length at TL=55°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	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5 50 100							uA
Typical junction capacitance (NOTE 1)	CJ	20							pF
Typical thermal resistance (NOTE 2)	R θJA R θJL	45 20							°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 at 0.375" (9.5mm) lead lengths, P.C.B. mounted.

