



## PG200~PG2010

### GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

**VOLTAGE** 50 to 1000 Volt **CURRENT** 2 Ampere

**DO-15**

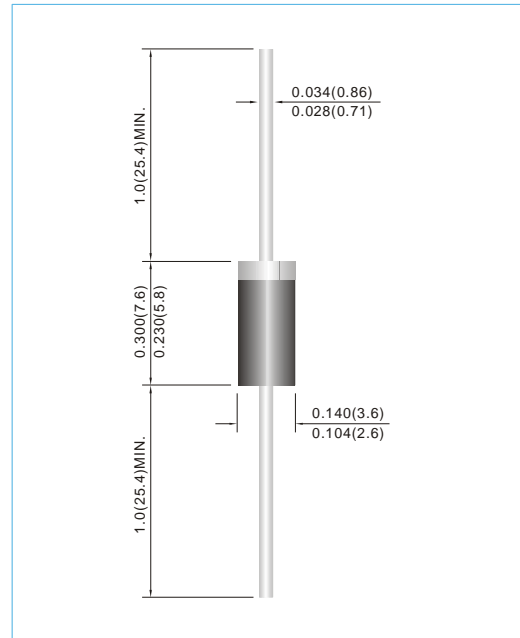
Unit : inch(mm)

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Glass passivated junction
- Lead free in compliance with EU RoHS 2011/65/EU directive

#### MECHANICAL DATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Weight: 0.014 ounces, 0.397 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

| PARAMETER   | SYMBOL                             | PG200       | PG201 | PG202 | PG204 | PG206 | PG208 | PG2010 | UNITS                       |
|---|------------------------------------|-------------|-------|-------|-------|-------|-------|--------|-----------------------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$                          | 50          | 100   | 200   | 400   | 600   | 800   | 1000   | V                           |
| Maximum RMS Voltage   | $V_{RMS}$                          | 35          | 70    | 140   | 280   | 420   | 560   | 700    | V                           |
| Maximum DC Blocking Voltage   | $V_{DC}$                           | 50          | 100   | 200   | 400   | 600   | 800   | 1000   | V                           |
| Maximum Average Forward Current 0.375"(9.5mm) lead length at $T_A=55^\circ\text{C}$                       | $I_{F(AV)}$                        | 2.0         |       |       |       |       |       |        | A                           |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load                       | $I_{FSM}$                          | 70          |       |       |       |       |       |        | A                           |
| Maximum Forward Voltage at 2.0A   | $V_F$                              | 1.1         |       |       |       |       |       |        | V                           |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$<br>$T_J=100^\circ\text{C}$ | $I_R$                              | 1.0<br>50.0 |       |       |       |       |       |        | $\mu\text{A}$               |
| Typical Junction capacitance (Note 1)   | $C_J$                              | 25          |       |       |       |       |       |        | pF                          |
| Typical Thermal Resistance(Note 2)  | $R_{\theta JA}$<br>$R_{\theta JL}$ | 45<br>28    |       |       |       |       |       |        | $^\circ\text{C} / \text{W}$ |
| Operating and Storage Temperature Range $T_J, T_{STG}$  | $T_J, T_{STG}$                     | -55 to +150 |       |       |       |       |       |        | $^\circ\text{C}$            |

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4 VDC

2. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



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## RATING AND CHARACTERISTIC CURVES

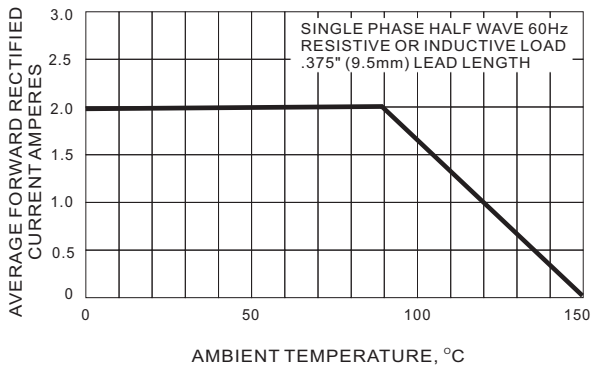


FIG. 1 FORWARD CURRENT DERATING CURVE

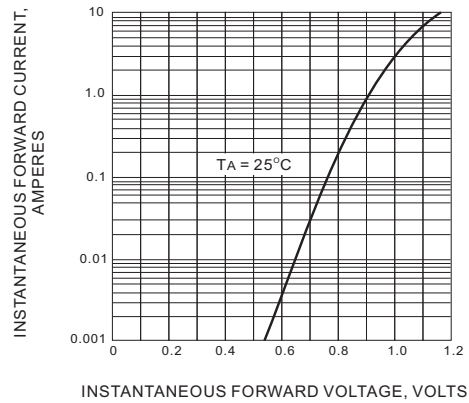


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

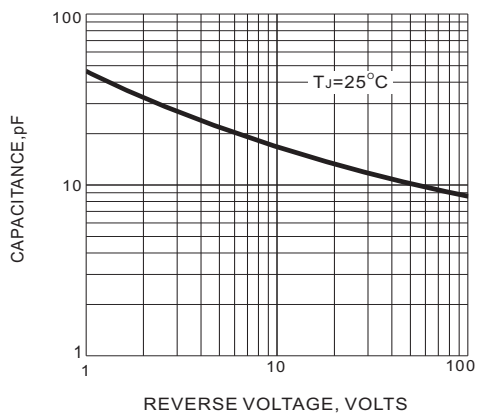


FIG. 3 TYPICAL JUNCTION CAPACITANCE

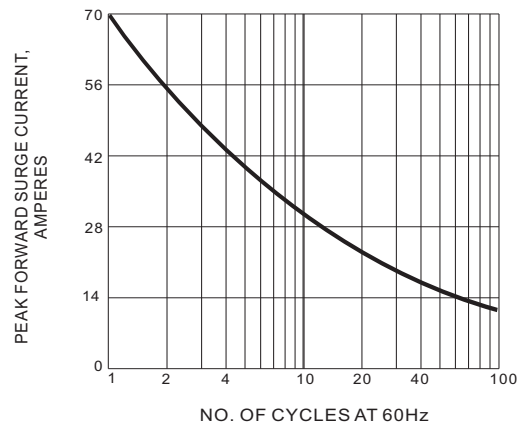


FIG. 4 MAX OVERLADE SURGE CURRENT

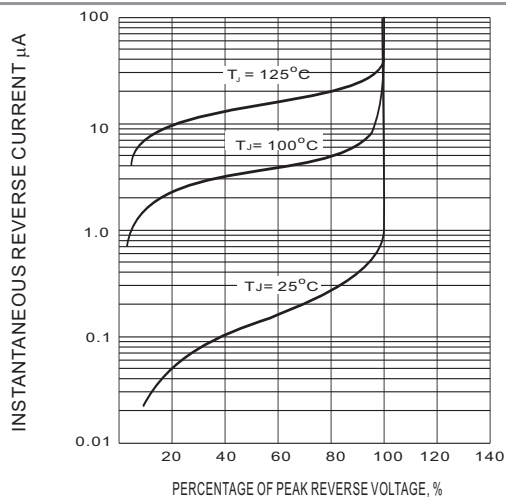


Fig. 5-TYPICAL REVERSE CHARACTERISTIC



## PG200~PG2010

### Part No\_packing code\_Version

PG200\_AY\_00001  
PG200\_AY\_10001  
PG200\_B0\_00001  
PG200\_B0\_10001  
PG200\_R2\_00001  
PG200\_R2\_10001

For example :

**RB500V-40\_R2\_00001**



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                        | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS                      | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                           |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                           |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                           |                      |                                       |



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