



GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIERS

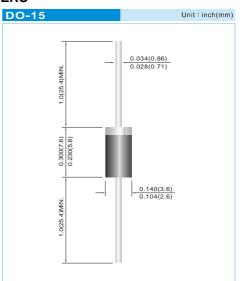
VOLTAGE 50 to 1000 Volt CURRENT 1.5 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Glass passivated junction
- Fast switching for high efficiency.
- 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 ounce, 0.397 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| PARAMETER | SYMBOL | PG150R | PG151R | PG152R | PG154R | PG156R | PG158R | PG1510R | 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 | I _{F(AV)} | 1.5 | | | | | | Α | |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 50 | | | | | Α | | |
| Maximum Forward Voltage at 1.5A | V _F | 1.3 | | | | | V | | |
| Maximum DC Reverse Current at Rated DC Blocking $T_{\rm J}$ =25°C Voltage $T_{\rm J}$ =100°C | I _R | 1 150 | | | | | | μА | |
| Maximum Reverse Recovery Time (Note 1) | t _{rr} | 150 250 500 | | | 00 | ns | | | |
| Typical Junction Capacitance (Note 2) | C _J | 35 | | | | | pF | | |
| Typical Thermal Resistance (Note 3) | R _{eJA} | 45 | | | | | °C / W | | |
| Operating Junction and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | | | | | °C | | |

NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_{rr} =0.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4 VDC
- 3. Thermal resistance from junction to ambient and from junction to lead length 0.375" (9.5mm) P.C.B. mounted





RATING AND CHARACTERISTIC CURVES

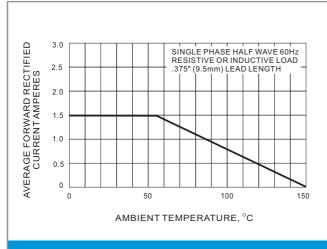


FIG.1 FORWARD CURRENT DERATING CURVE

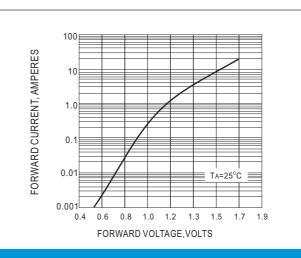


FIG.2 TYPICAL FORWARD CHARACTERISTICS

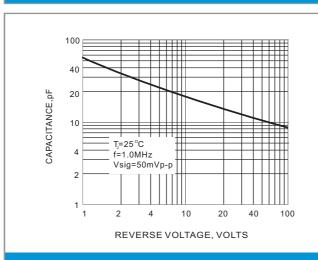


FIG.3 TYPICAL JUNCTION CAPACITANCE

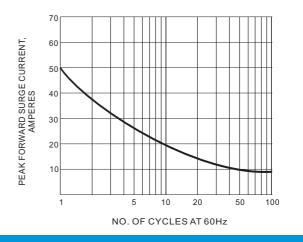
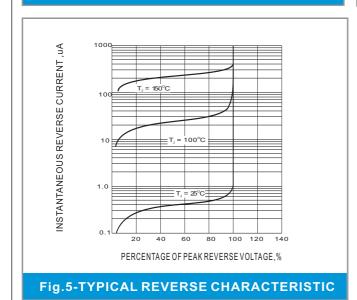


FIG.4 MAX NON-REPETITIVE SURGE CURRENT







Part No_packing code_Version

PG150R_AY_00001

PG150R_AY_10001

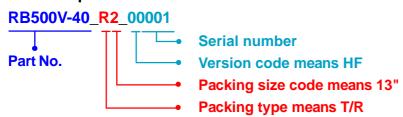
PG150R_B0_00001

PG150R_B0_10001

PG150R_R2_00001

PG150R_R2_10001

For example:



| Packing Code XX | | | | | Version Code XXXXX | | | |
|--------------------------------------|----------------------|-----------------------------------|----------------------|------------|----------------------|---------------------------------------|--|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code | | |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | |
| Tube Packing (T/P) | Т | 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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