

GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - **50 to 1000** Volts
 FORWARD CURRENT - **6.0** Amperes

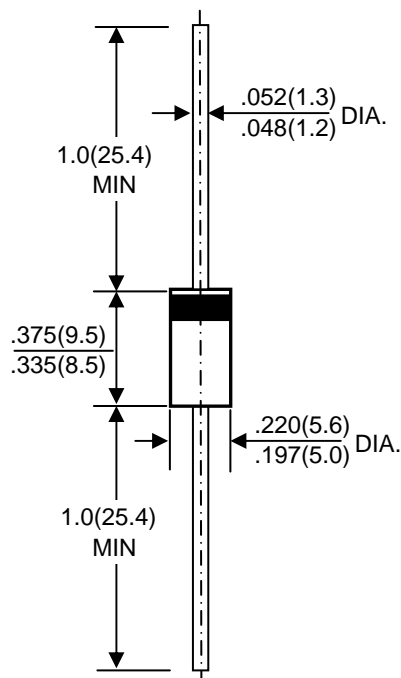
FEATURES

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces , 1.1 grams
- Mounting position: Any

DO- 27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| CHARACTERISTICS | SYMBOL | 6A05GS | 6A1GS | 6A2GS | 6A4GS | 6A6GS | 6A8GS | 6A10GS | UNIT |
|---|-------------------|-------------|-------|-------|-------|-------|-------|--------|------|
| 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 Rectified Current @ T _A =60°C | I _(AV) | 6.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method) | I _{FSM} | 175 | | | | | | | A |
| Maximum Forward Voltage at 6.0A DC | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =100°C | I _R | 10 100 | | | | | | | uA |
| Operating Temperature Range | T _J | -55 to +175 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +175 | | | | | | | °C |

6A*GS-B-00-00

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FIG. 1 – FORWARD CURRENT DERATING CURVE

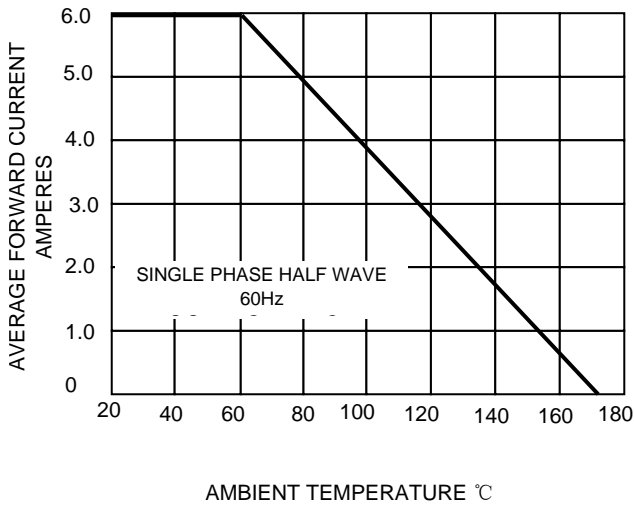


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

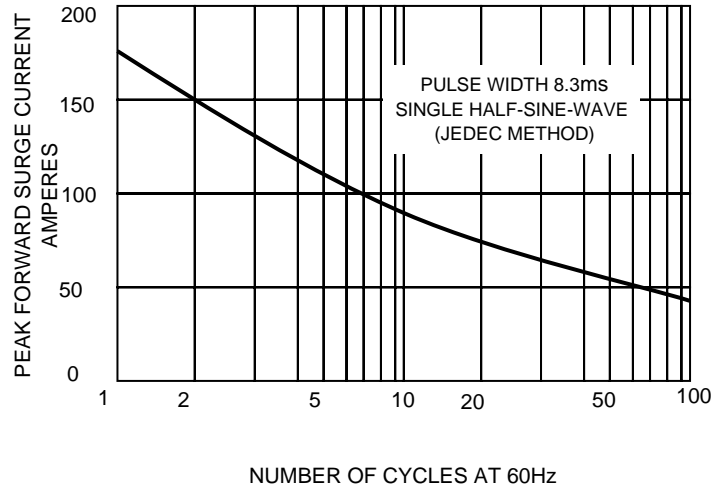


FIG.3-TYPIACL REVERSE CHARACTERISTICS

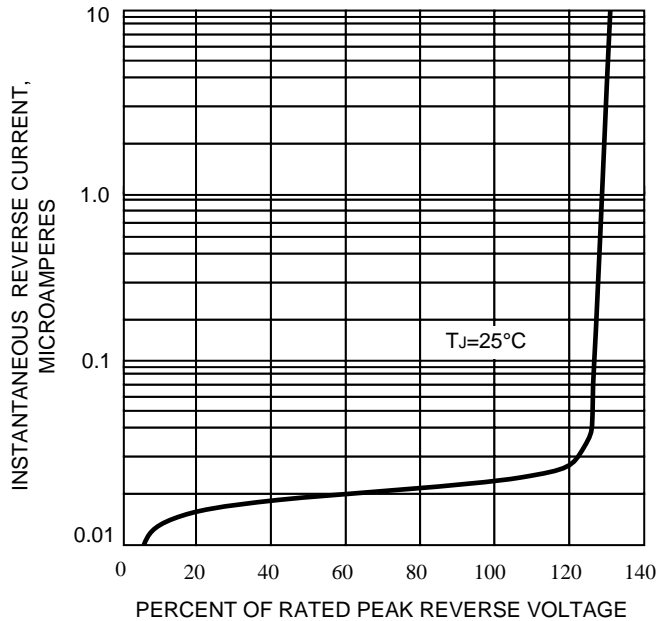
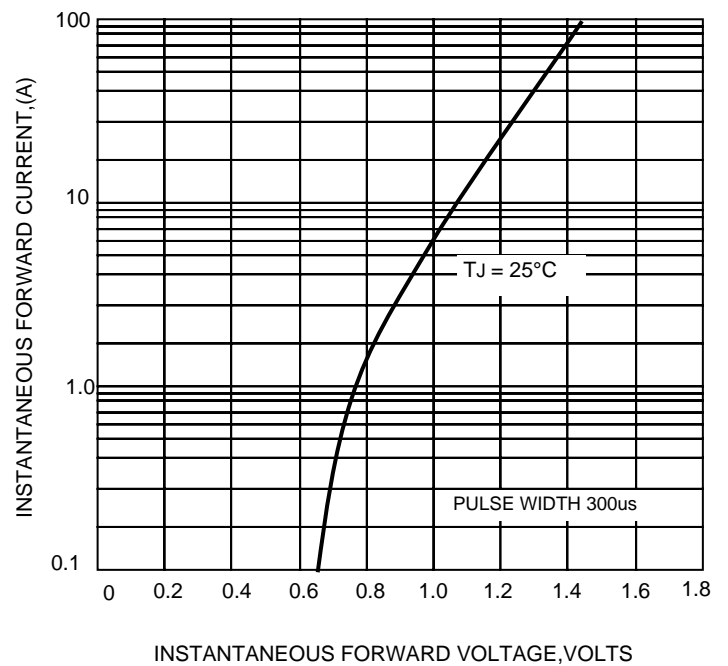


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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