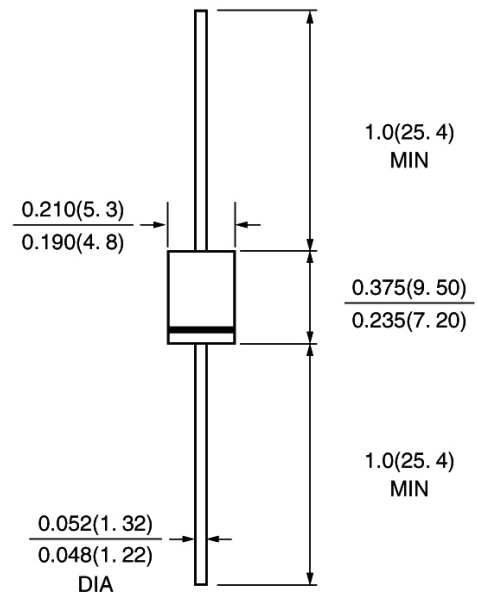


BY550G-400**GLASS PASSIVATED
JUNCTION RECTIFIER****VOLTAGE: 400V****CURRENT: 5.0A****FEATURE**

Molded case feature for auto insertion
 High current capability
 Low leakage current
 High surge capability
 High temperature soldering guaranteed
 250°C /10sec/0.375" lead length at 5 lbs tension
 Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per
 MIL-STD 202E, method 208C
 Case: Molded with UL-94 Class V-0 recognized Flame
 Retardant Epoxy
 Polarity: color band denotes cathode
 Mounting position: any

DO - 201AD

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
 for capacitive load, derate current by 20%)

| | SYMBOL | BY550G-20S | units |
|---|-----------------------------------|---------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 400 | V |
| Maximum RMS Voltage | V _{rms} | 280 | V |
| Maximum DC blocking Voltage | V _{dc} | 400 | V |
| Maximum Average Forward Rectified Current 3/8" lead length at Ta =60°C | I _{f(av)} | 5.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 300.0 | A |
| Maximum Instantaneous Forward Voltage at rated forward current | V _f | 1.15 | V |
| Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =125°C | I _r | 20.0 200.0 | μA |
| Typical Junction Capacitance (Note 1) | C _j | 50 | pF |
| Operating Temperature (Note 2) | R _{th(ja)} | 18 | °C/W |
| Storage and Operating Junction Temperature | T _{stg} , T _j | -55 to +150 | °C |

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES BY550G-400

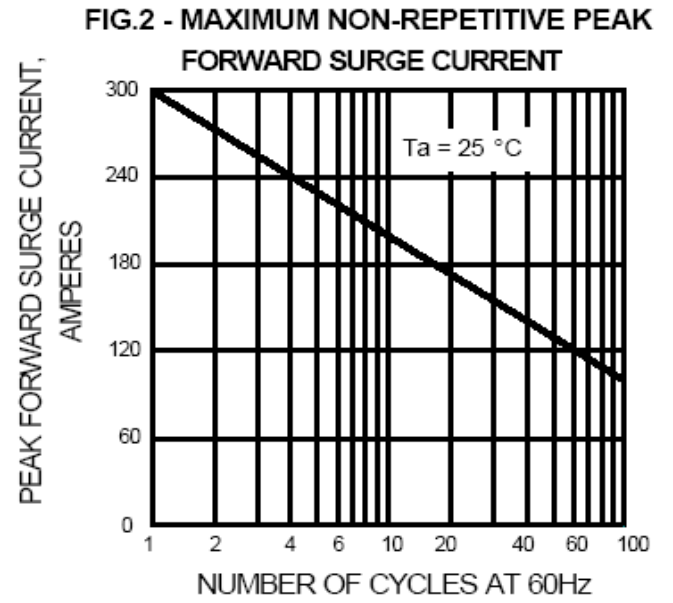
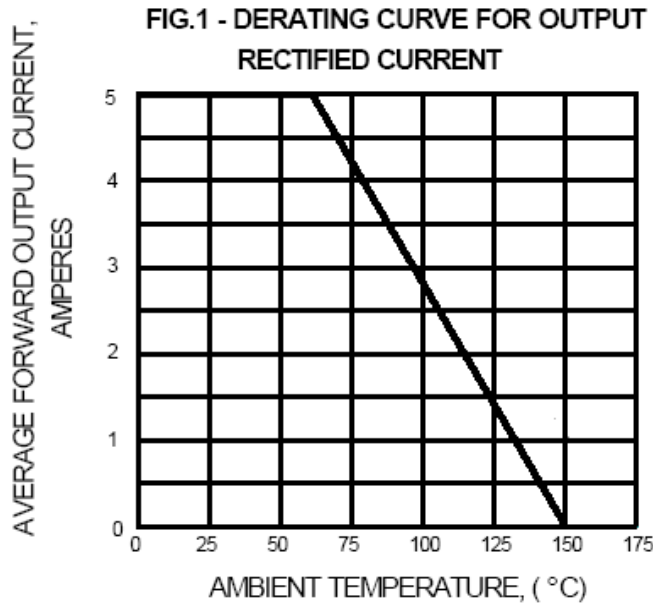


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

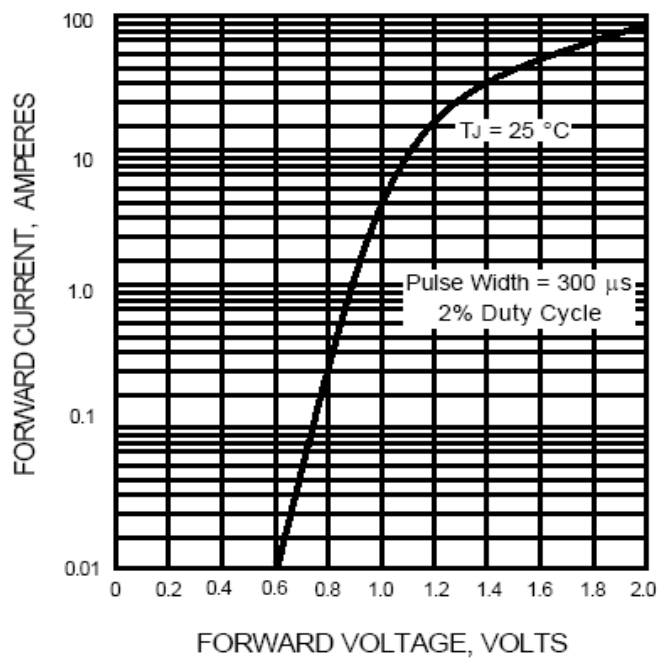


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

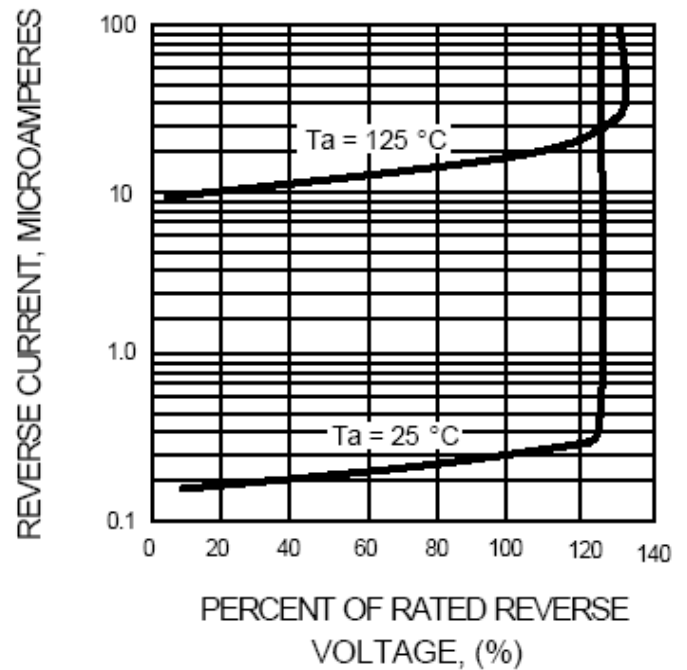


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

