

| GLASS PASSIVATED<br>BRIDGE RECTIFIERS                                                                                                                                                                                                                                                                                                         | REVERSE VOLTAGE - 50 to 1000Volts<br>FORWARD CURRENT - 4 / 6 / 8 Amperes |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>FEATURES</b> <ul style="list-style-type: none"> <li>●Surge overload rating -125~175 amperes peak</li> <li>●Ideal for printed circuit board</li> <li>●Reliable low cost construction utilizing molded plastic technique</li> <li>●Plastic material has UL</li> <li>●Mounting postition:Any</li> <li>●Mounting torque:5 In.lb.Max</li> </ul> | <p>Dimensions in inches and (milimeters)</p>                             |

## 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                           | TBU         | TBU        | TBU  | TBU        | TBU  | TBU        | TBU      | UNIT |
|----------------------------------------------------------------------------------------------------------|----------------------------------|-------------|------------|------|------------|------|------------|----------|------|
|                                                                                                          |                                  | 4005G       | 401G       | 402G | 404G       | 406G | 408G       | 410G     |      |
|                                                                                                          |                                  | 6005G       | 601G       | 602G | 604G       | 606G | 608G       | 610G     |      |
|                                                                                                          |                                  | 8005G       | 801G       | 802G | 804G       | 806G | 808G       | 810G     |      |
| Maximum Recurrent Peak Reverse Voltage                                                                   | V <sub>RRM</sub>                 | 50          | 100        | 200  | 40         | 600  | 800        | 1000     | V    |
| Maximum RMS Voltage                                                                                      | V <sub>RMS</sub>                 | 35          | 70         | 140  | 280        | 420  | 560        | 700      | V    |
| Maximum DC Blocking Voltage                                                                              | V <sub>DC</sub>                  | 50          | 100        | 200  | 40         | 600  | 800        | 1000     | V    |
| Maximum Average Forward Rectified Output Current at T <sub>C</sub> =100℃<br>TA=50℃/40℃/45℃               | I <sub>(AV)</sub>                | TBU4        | 4.0<br>4.0 | TBU6 | 6.0<br>6.0 | TBU8 | 8.0<br>6.0 | A<br>A   |      |
| Peak Forward Surage Current 8.3ms single<br>Half Sine-Wave Super Imposed on Rated Load<br>(JEDEC Method) | I <sub>FSM</sub>                 |             | 125        |      | 150        |      | 175        | A        |      |
| Maximum Instantaneous Forward Voltage Drop<br>per Element at 4.0A/3.0A/4.0A                              | V <sub>F</sub>                   |             | 1.1        |      | 1.1        |      | 1.1        | mV       |      |
| Maximum Reverse Leakage at rated DC Blocking Voltage Per Element<br>TA=25℃<br>TA=100℃                    | I <sub>R</sub>                   |             | 10<br>100  |      | 10<br>200  |      | 10<br>300  | μA<br>mA |      |
| Operating and Storage Temperature Range T <sub>J</sub> .T <sub>STG</sub>                                 | T <sub>J</sub> .T <sub>STG</sub> | -55 to +150 |            |      |            |      |            |          | ℃    |

FIG.1-DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

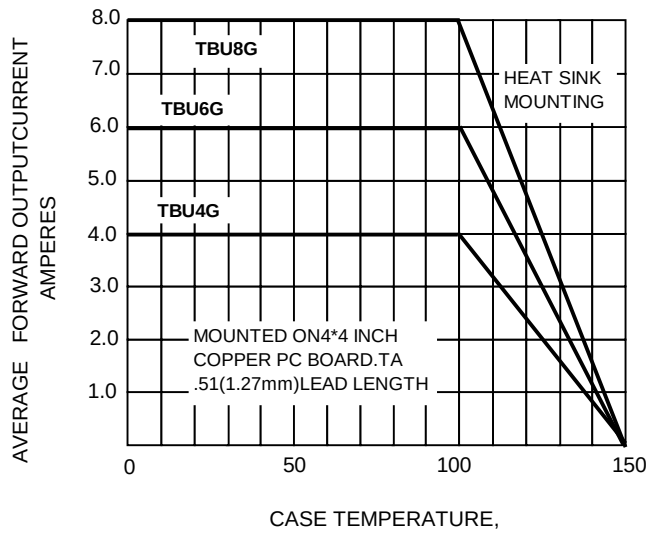


FIG.2 TYPICAL INSTANTANEOUS FORWARD  
CHARACTERISTIC

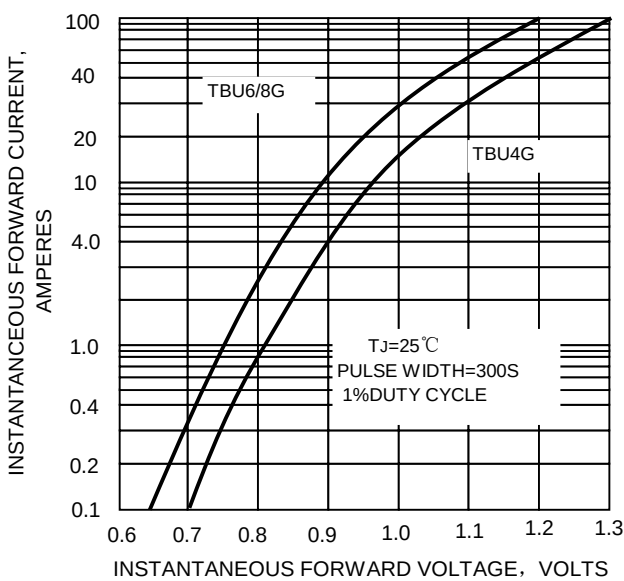


FIG.3-MAXIMUM NON-RETETITIVE PEAK  
FORWARD SURGE CURRENT

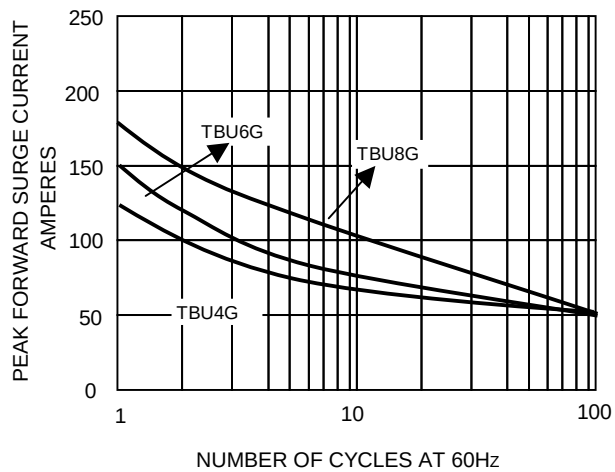


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

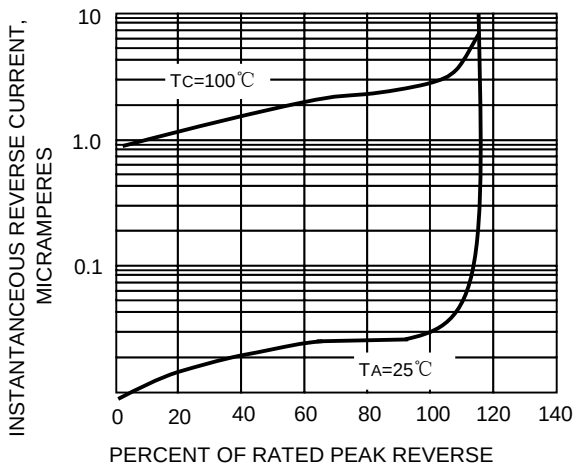


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

