

GLASS PASSIVATED 3 PHASE BRIDGE RECTIFIERS

REVERSE VOLTAGE - **800 to 1600** Volts
 FORWARD CURRENT - **25** Amperes

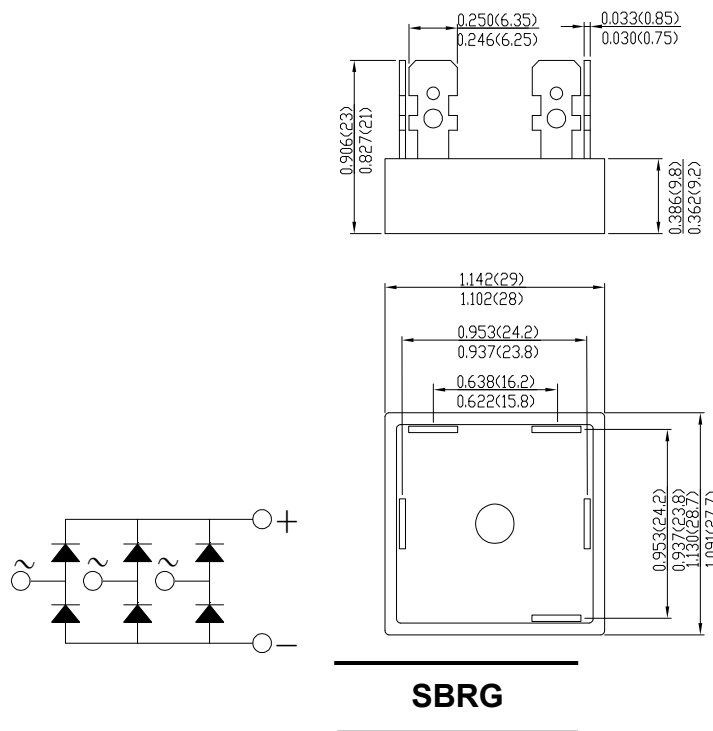
Features

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

MECHANICAL DATA

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 21 grams (approx.)
- Mounting Position: Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
- Mounting Torque: 2 N · m

Dimensions In Inches and (millimeters)



Part Number Code

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| T | S | B | R | 2 | 5 | 0 | 8 | G |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--|-----|-------------|---|-------------------|--|----|-----|----|-----|---|-------------------------------------|--|----|------|----|-------|----|-------|--|-----|--------------------|
| <table border="1" style="margin: auto;"> <tr><td colspan="2">Product Type</td></tr> <tr><td>TSK</td><td>TSBR series</td></tr> </table> | Product Type | | TSK | TSBR series | <table border="1" style="margin: auto;"> <tr><td colspan="2">Rectified Current</td></tr> <tr><td>25</td><td>25A</td></tr> <tr><td>35</td><td>35A</td></tr> </table> | Rectified Current | | 25 | 25A | 35 | 35A | <table border="1" style="margin: auto;"> <tr><td colspan="2">Peak Repetitive Reverse Voltage (V)</td></tr> <tr><td>08</td><td>800V</td></tr> <tr><td>10</td><td>1000V</td></tr> <tr><td>12</td><td>1200V</td></tr> </table> | Peak Repetitive Reverse Voltage (V) | | 08 | 800V | 10 | 1000V | 12 | 1200V | <table border="1" style="margin: auto;"> <tr><td>ZZZ</td><td>Internal code rule</td></tr> </table> | ZZZ | Internal code rule |
| Product Type | | | | | | | | | | | | | | | | | | | | | | | |
| TSK | TSBR series | | | | | | | | | | | | | | | | | | | | | | |
| Rectified Current | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 25A | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 35A | | | | | | | | | | | | | | | | | | | | | | |
| Peak Repetitive Reverse Voltage (V) | | | | | | | | | | | | | | | | | | | | | | | |
| 08 | 800V | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1000V | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1200V | | | | | | | | | | | | | | | | | | | | | | |
| ZZZ | Internal code rule | | | | | | | | | | | | | | | | | | | | | | |

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%

VOLTAGE RATINGS

| CHARACTERISTICS | SYMBOL | -08 | -10 | -12 | -14 | -16 | UNIT |
|-------------------------------------|---------------------|-----|------|------|------|------|------|
| Peak Repetitive Voltage | V _{RRM} | | | | | | |
| Working Peak Reverse Voltage | V _{RWM} | 800 | 1000 | 1200 | 1400 | 1600 | V |
| DC Blocking Voltage | V _R | | | | | | |
| Peak Non-Repetitive Reverse Voltage | V _{RSM} | 900 | 1100 | 1300 | 1500 | 1700 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 560 | 700 | 840 | 980 | 1120 | V |

FORWARD CONDUCTION

| CHARACTERISTICS | SYMBOL | TSBR25G | | | | | UNIT |
|---|------------------|---------|--|--|--|--|------------------|
| Maximum Average Forward Rectified Current @TC=55°C | I _O | 25 | | | | | A |
| Peak Forward Surge Current t=8.3ms at 60HZ | I _{FSM} | 320 | | | | | A |
| I ² t Rating for fusing | I ² t | 840 | | | | | A ² S |
| Maximum Forward Voltage drop per element at 12.5A Peak | V _F | 1.1 | | | | | V |
| Reverse peak current V _R =V _{RRM} @T _J =25°C V _R =V _{RRM} @T _J =150°C | I _R | 5 3 | | | | | μA mA |
| RMS Isolation Voltage from Case to Lead | V _{ISO} | 2500 | | | | | V |

THERMAL CHARACTERISTICS

| | | | |
|-----------------------------|------------------|-------------|----|
| Operating Temperature Range | T _J | -40 to +150 | °C |
| Storage Temperature Range | T _{STG} | -40 to +125 | °C |

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

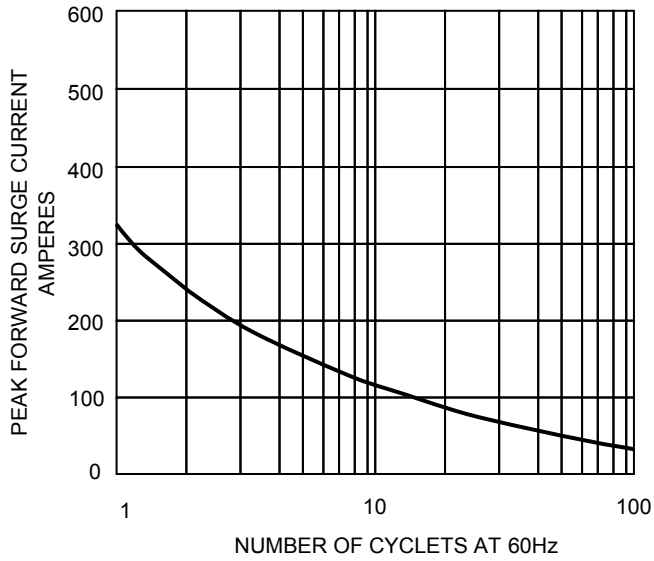


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

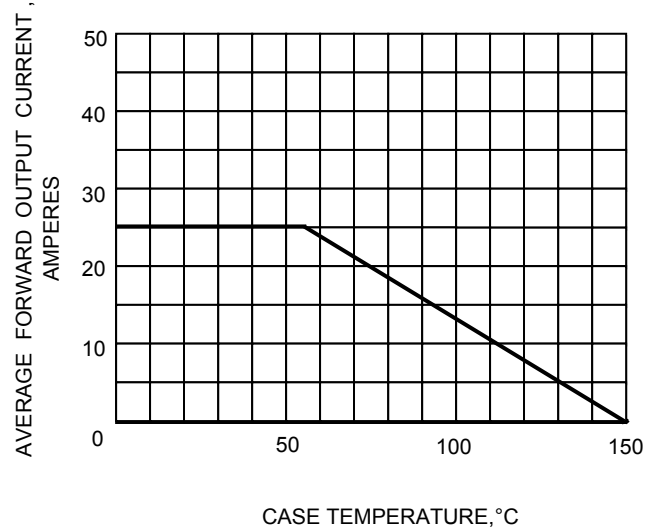


FIG.3-TYPICAL FORWARD CHARACTERISTICS

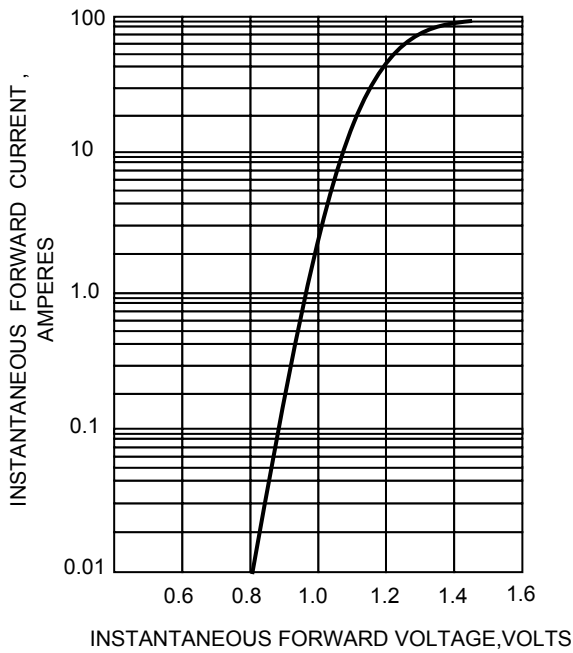
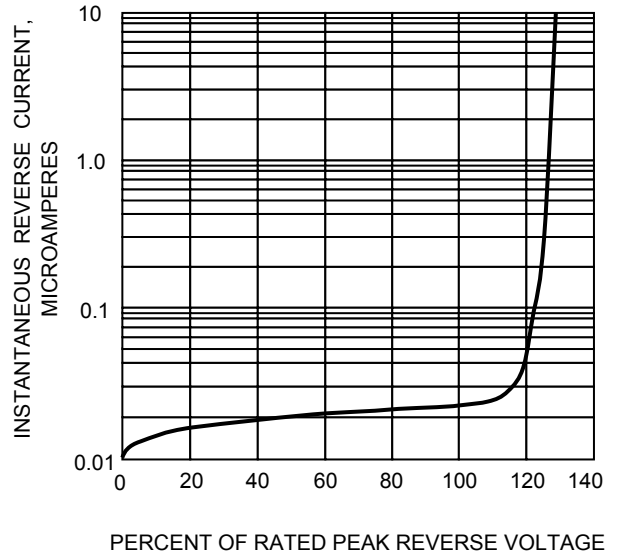


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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