

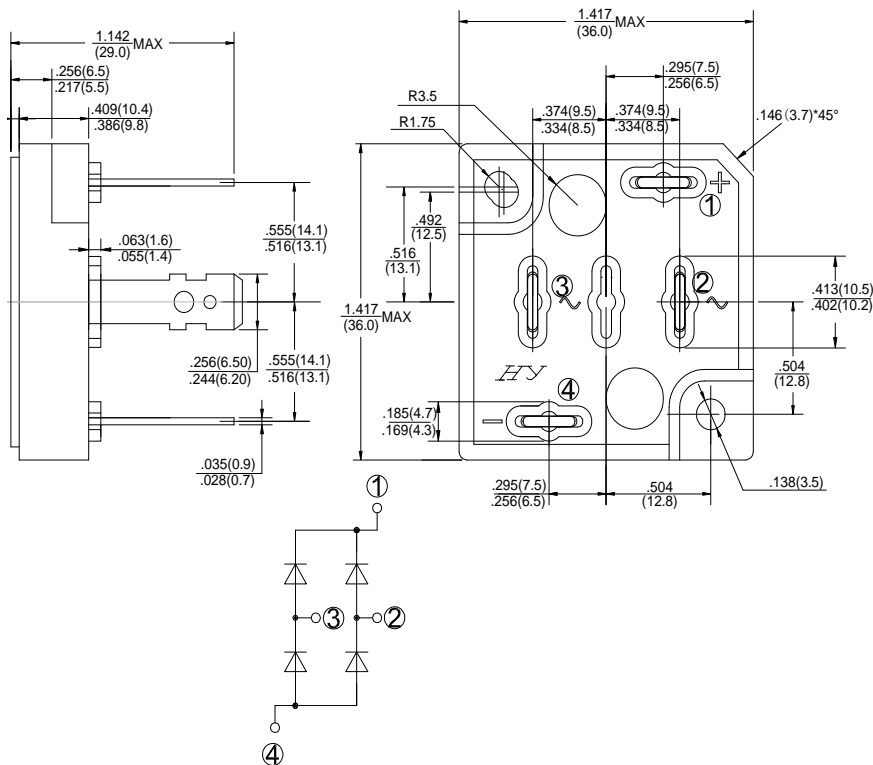
**GLASS PASSIVATED
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **1600Volts**
FORWARD CURRENT - **50Amperes**

Features

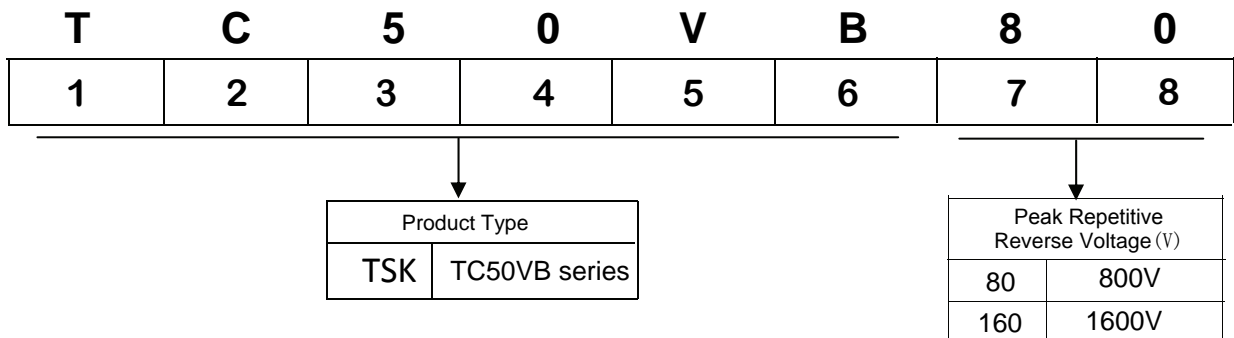
- Surge overload -500 amperes peak
- Low forward voltage drop
- Mounting position :Any
- Weight: 44g

Dimensions In Inches and (millimeters)



CVB

Part Number Code



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | TC50VB160 | UNIT |
|--|------------------|-------------|------------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 1600 | V |
| Maximum RMS Bridge Input Voltage | VRMS | 1120 | V |
| Maximum Average Forward Rectified Output Current @ Tc=55°C | I(AV) | 50 | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load | IFSM | 500 | A |
| Maximum Forward Voltage Drop Per Element at 25.0 A Peak | VF | 1.1 | V |
| Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ TA=25°C | IR | 100 | μA |
| Current Squared time (1ms<t<10ms) | I ² t | 800 | A ² S |
| Dielectric Strength | Vdis | 2000 | V |
| Mounting Torque | TOR | 0.8 | N.m |
| Typical Thermal Resistance (Note1) | RθJC | Max: 0.7 | °C/W |
| Operating Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | TSTG | -55 to +150 | °C |

NOTES: 1.Thermal Resistance Junction to case.

2.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXMUN FORWARD SURGE CURRENT

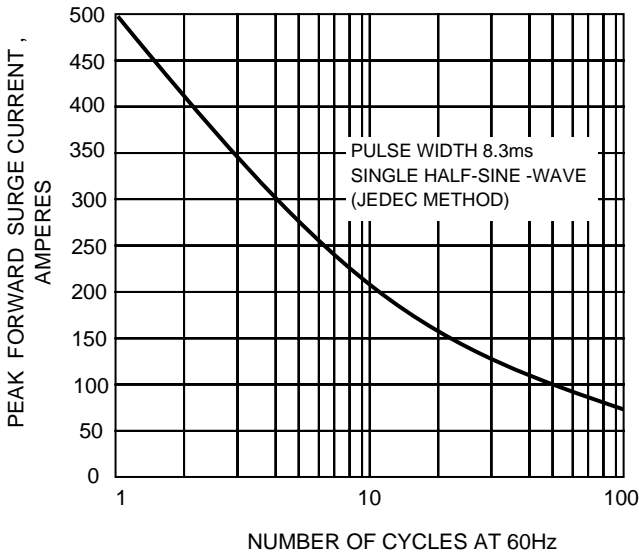


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

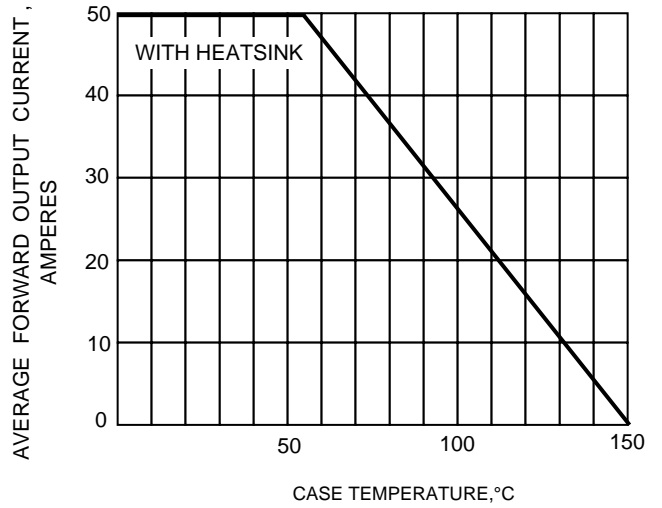


FIG.3-TYPICAL FORWARD CHARACTERISTICS

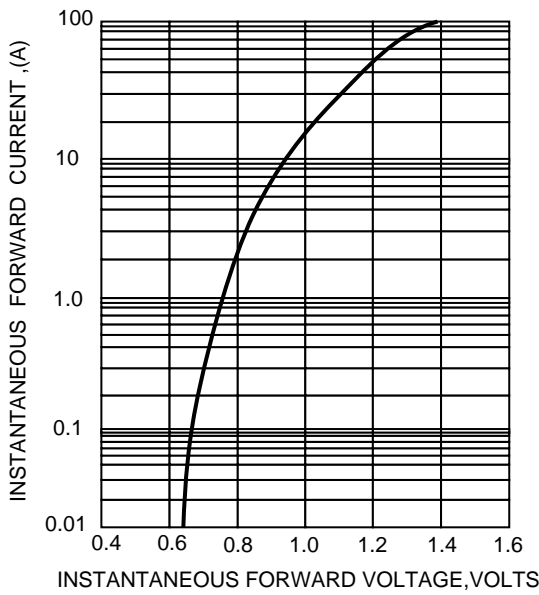
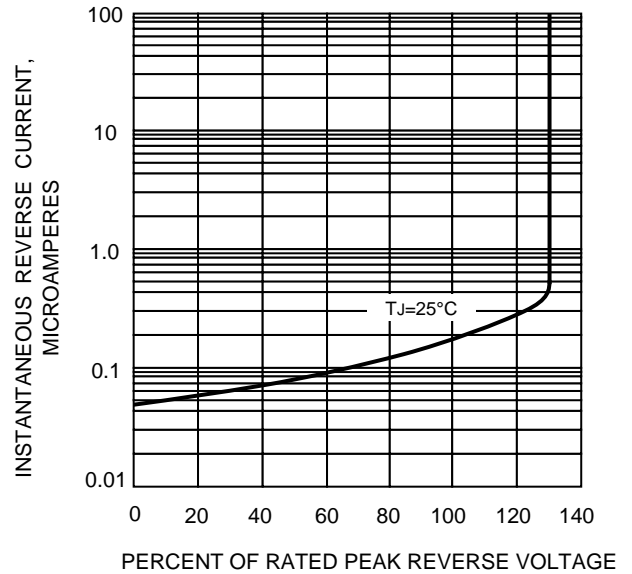


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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