



# SC35VB80

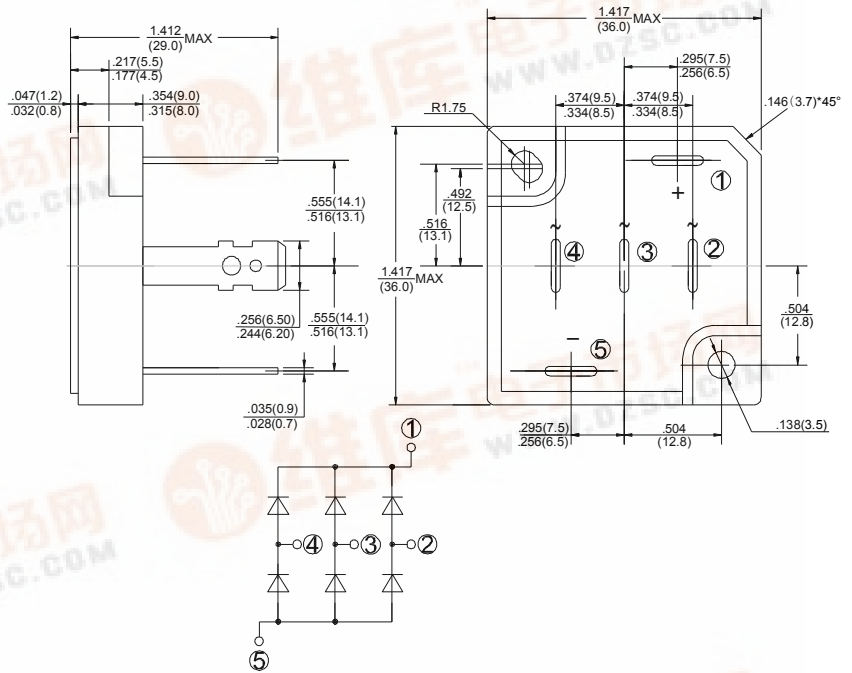
## GLASS PASSIVATED 3 PHASE BRIDGE RECTIFIERS

REVERSE VOLTAGE - 800Volts  
FORWARD CURRENT - 35Amperes

### FEATURES

- Surge overload -350 amperes peak
- Low forward voltage drop
- Mounting position :Any
- Weight: 37g

### SCVB



Dimensions in inches and (millimeters)

## 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            | SC35VB80    | UNIT             |
|--------------------------------------------------------------------------------------------|-------------------|-------------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                     | V <sub>RRM</sub>  | 800         | V                |
| Maximum RMS Bridge Input Voltage                                                           | V <sub>RMS</sub>  | 560         | V                |
| Maximum Average Forward Rectified Output Current @ T <sub>c</sub> =55°C                    | I <sub>(AV)</sub> | 35          | A                |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load   | I <sub>FSM</sub>  | 350         | A                |
| Current Squared time (1ms<t<10ms)                                                          | I <sup>2</sup> t  | 300         | A <sup>2</sup> S |
| Dielectric Strength                                                                        | V <sub>dis</sub>  | 2000        | V                |
| Mounting Torque                                                                            | TOR               | 0.8         | N.m              |
| Maximum Forward Voltage Drop Per Element<br>at 12.5 A Peak                                 | V <sub>F</sub>    | 1.05        | V                |
| Maximum Reverse Current at Rated<br>DC Blocking Voltage Per Element @ T <sub>A</sub> =25°C | I <sub>R</sub>    | 10          | μA               |
| Typical Thermal Resistance (Note1)                                                         | R <sub>θJC</sub>  | Max: 0.7    | °C/W             |
| Operating Temperature Range                                                                | T <sub>J</sub>    | -55 to +150 | °C               |
| Storage Temperature Range                                                                  | T <sub>STG</sub>  | -55 to +150 | °C               |

NOTES: 1. Thermal Resistance Junction to case.

RATING AND CHARACTERISTIC CURVES  
SC35VB80



FIG.1-MAXMUN FORWARD SURGE CURRENT

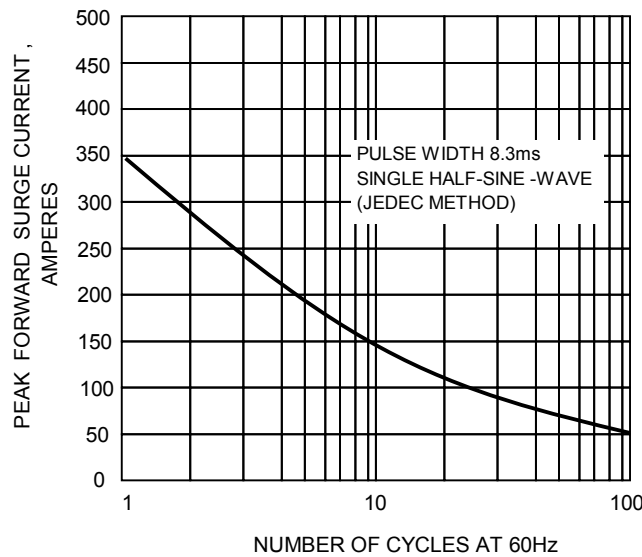


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

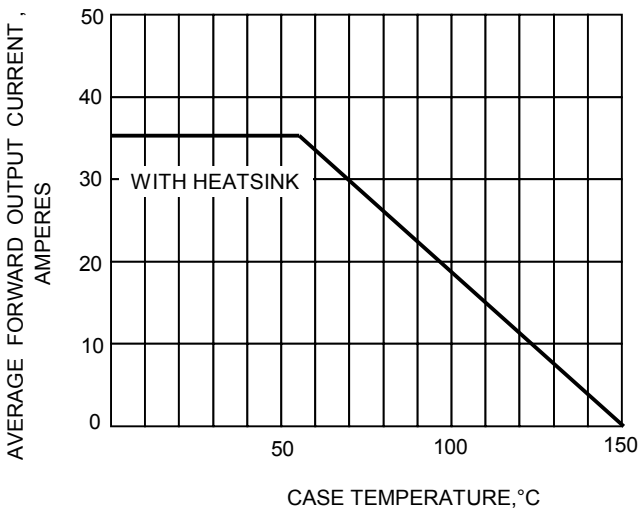


FIG.3-TYPICAL FORWARD CHARACTERISTICS

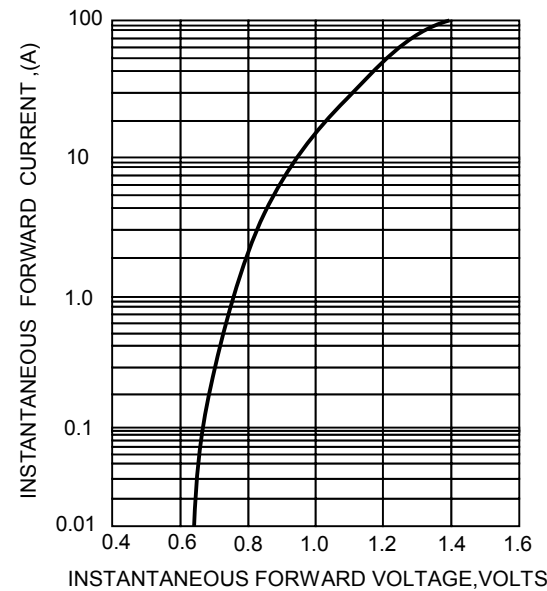


FIG.4-TYPICAL REVERSE CHARACTERISTICS

