

INTRODUCE:

HVGT high voltage bridge rectifier is made of high quality silicon GPP chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers.

FEATURES:

1. High reliability design.
2. High voltage design.
3. Single phase bridge rectifier.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

APPLICATIONS:

1. High voltage AC power rectifier
2. High pressure instrument.
3. General purpose high voltage rectifier.
4. Other.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: screw holes M3.
3. Net weight: 200 grams (approx).

SHAPE DISPLAY:

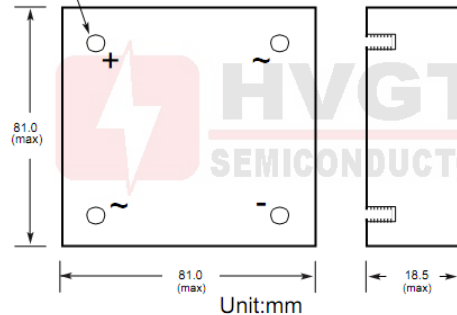


SIZE: (Unit:mm)

HVGT NAME: HVQ-808

HVQ-808 Series

Screw Holes M3



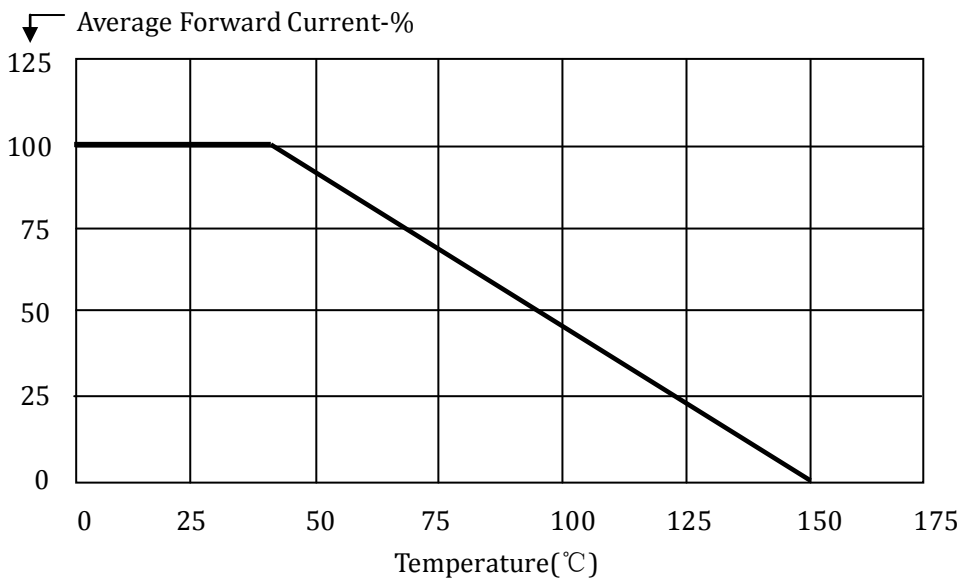
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

| Items | Symbols | Condition | Data Value | Units |
|--------------------------------------|------------|--|------------|-------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | $T_A=25^{\circ}C$ | 15 | kV |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | $T_A=25^{\circ}C$ | 18 | kV |
| Average Forward Current Maximum | I_{FAVM} | $T_A=40^{\circ}C$ | 2.0 | A |
| | | $T_{OIL}=55^{\circ}C$ | 3.0 | A |
| Non-Repetitive Forward Surge Current | I_{FSM} | $T_A=25^{\circ}C$; 50Hz Half-Sine Wave; 8.3ms | 40 | A |
| Junction Temperature | T_J | | 150 | $^{\circ}C$ |
| Allowable Operation Case Temperature | T_c | | -40~+150 | $^{\circ}C$ |
| Storage Temperature | T_{STG} | | -40~+150 | $^{\circ}C$ |

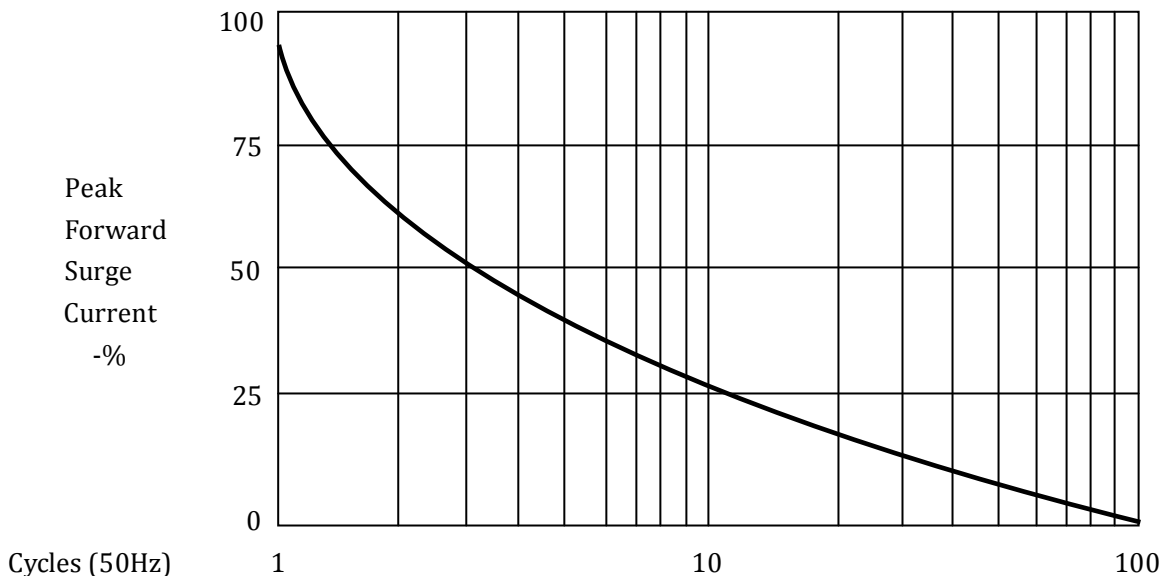
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

| Items | Symbols | Condition | Data value | Units |
|-------------------------------|----------|---|------------|---------|
| Maximum Forward Voltage Drop | V_{FM} | at $25^{\circ}C$; at I_{FAVM} | 16.5 | V |
| Maximum Reverse Current | I_{R1} | at $25^{\circ}C$; at V_{RRM} | 2.0 | μA |
| | I_{R2} | at $100^{\circ}C$; at V_{RRM} | 50 | μA |
| Maximum Reverse Recovery Time | T_{RR} | at $25^{\circ}C$; $I_f=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$ | -- | nS |
| Junction Capacitance | C_J | at $25^{\circ}C$; $V_R=0V$; $f=1MHz$ | -- | pF |

Forward Current Derating Curve



Non-Repetitive Surge Current



MARKING:

| Type | Code | Cathode Mark |
|--------------|----------------------|--------------|
| HVQL20MB150D | HVQL20MB150D HVGT | + ~ ~ - |

MODEL NOTE:

| Type | I _{F(AV)} | Device structure | V _{RRM} | Frequency |
|--------------------------------------|--------------------|---------------------------------------|------------------|---|
| HVQL | 20 | MB | 150 | D |
| High Voltage Bridge Rectifier Series | 2.0A | (MB)=Single-phase (MT)=Three-phase | 15KV | (D)=Low frequency (G)=High frequency |