



INTRODUCE:

HVGT high voltage silicon rectifier assembly is made of high quality glass passivated 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. High frequency .
4. Conform to RoHS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

APPLICATIONS:

1. High frequency switching power supply.
2. Power supply of laser equipment .
3. General purpose high voltage rectifier.
4. Other.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Net weight: 7.2 grams (approx).

SHAPE DISPLAY:

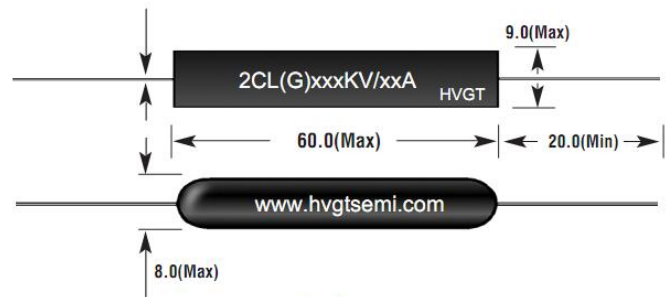


SIZE: (Unit:mm)

HVGT NAME: HVS-080960H

HVS-080960H Series

Lead Diameter 1.0mm



Unit:mm

MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

| Items | Symbols | Condition | Data Value | Units |
|--------------------------------------|------------|---|------------|-------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | $T_A=25^{\circ}C$ | 40 | kV |
| Average Forward Current Maximum | I_{FAVM} | $T_A=40^{\circ}C$ | 100 | mA |
| Suege Current | I_{FSM} | $T_A=25^{\circ}C$; Half-Sine Wave; 8.3mS | 3.0 | A |
| Junction Temperature | T_J | | 125 | $^{\circ}C$ |
| Allowable Operation Case Temperature | T_C | | -40~+125 | $^{\circ}C$ |
| Storage Temperature | T_{STG} | | -40~+125 | $^{\circ}C$ |

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

| Items | Symbols | Condition | Data value | Units |
|-------------------------------|----------|---|------------|---------|
| Maximum Forward Voltage Drop | V_F | at $25^{\circ}C$; at $I_{F(AV)}$ | 48 | 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 $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$ | 100 | nS |
| Junction Capacitance | C_J | at $25^{\circ}C$; $V_R=0V$; $f=1MHz$ | -- | pF |



Fig 1

Forward Current Derating Curve

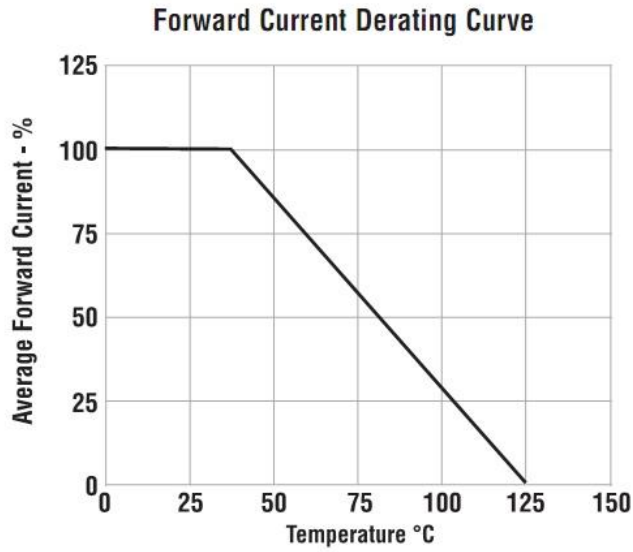
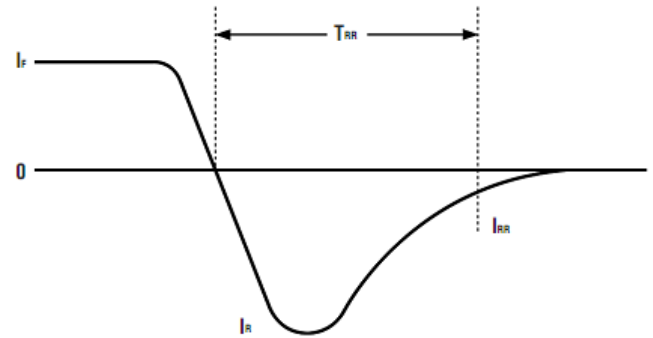


Fig 2

Reverse Recovery Measurement Waveform



Typical data capture points: $I_F = 0.5I_R$, $I_R, I_{RR} = 0.25I_R$

Fig 3

Non-Repetitive Surge Current

