

INTRODUCE:

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

FEATURES:

1. High reliability design.
2. Very high voltage.
3. High frequency, fast recovery.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

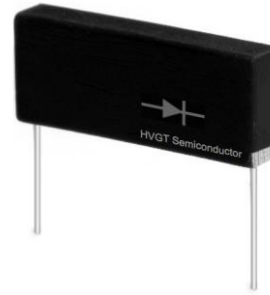
APPLICATIONS:

1. High voltage multiplier circuit
2. electrostatic precipitators.
3. General purpose high voltage rectifier.
4. Pulse rectifier circuit

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: radial lead.
3. Net weight: 4.6 grams (approx).

SHAPE DISPLAY:

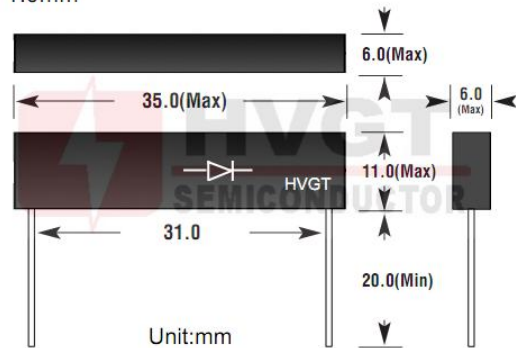


SIZE: (Unit:mm)

HVGT NAME: HVR-061135

HVR-061135 Series

Lead Diameter 1.0mm



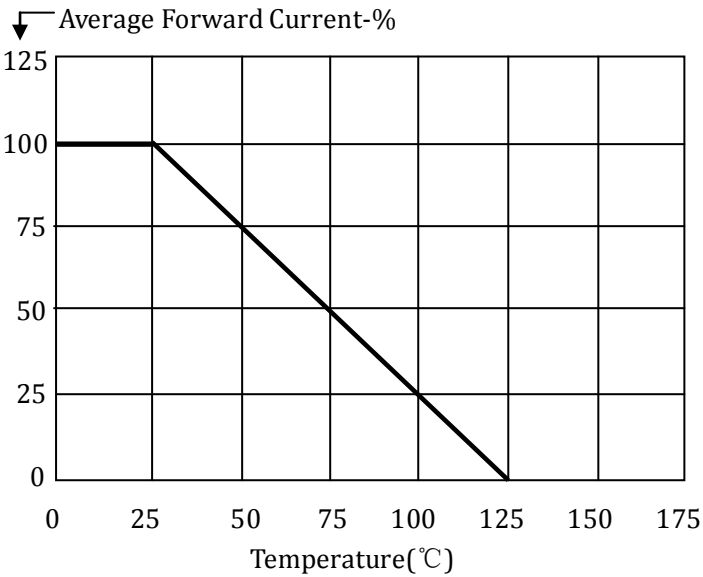
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

| Items | Symbols | Condition | Data Value | Units |
|--------------------------------------|------------|--|------------|-------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | $T_A=25^{\circ}C$ | 10 | kV |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | $T_A=25^{\circ}C$ | 12 | kV |
| Average Forward Current Maximum | I_{FAVM} | $T_A=25^{\circ}C$ | 1.0 | A |
| | | $T_{OIL}=55^{\circ}C$ | 2.0 | A |
| Non-Repetitive Forward Surge Current | I_{FSM} | $T_A=25^{\circ}C$; 60Hz Half-Sine Wave; 8.3ms | 20 | A |
| Junction Temperature | T_J | | 125 | $^{\circ}C$ |
| Allowable Operation Case Temperature | T_C | | -40~+125 | $^{\circ}C$ |
| Storage Temperature | T_{STG} | | -40~+125 | $^{\circ}C$ |

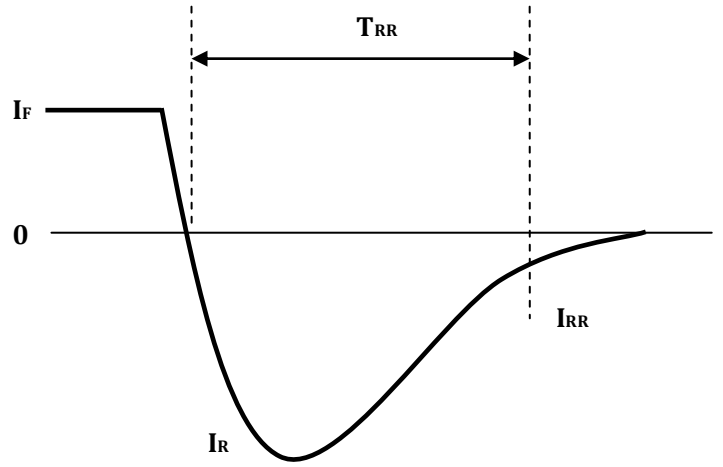
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

| Items | Symbols | Condition | Data value | Units |
|-------------------------------|----------|---|------------|---------|
| Maximum Forward Voltage Drop | V_{FM} | at $25^{\circ}C$; at I_{FAVM} | 12 | V |
| Maximum Reverse Current | I_{R1} | at $25^{\circ}C$; at V_{RRM} | 5.0 | 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 |

Forward Current Derating Curve

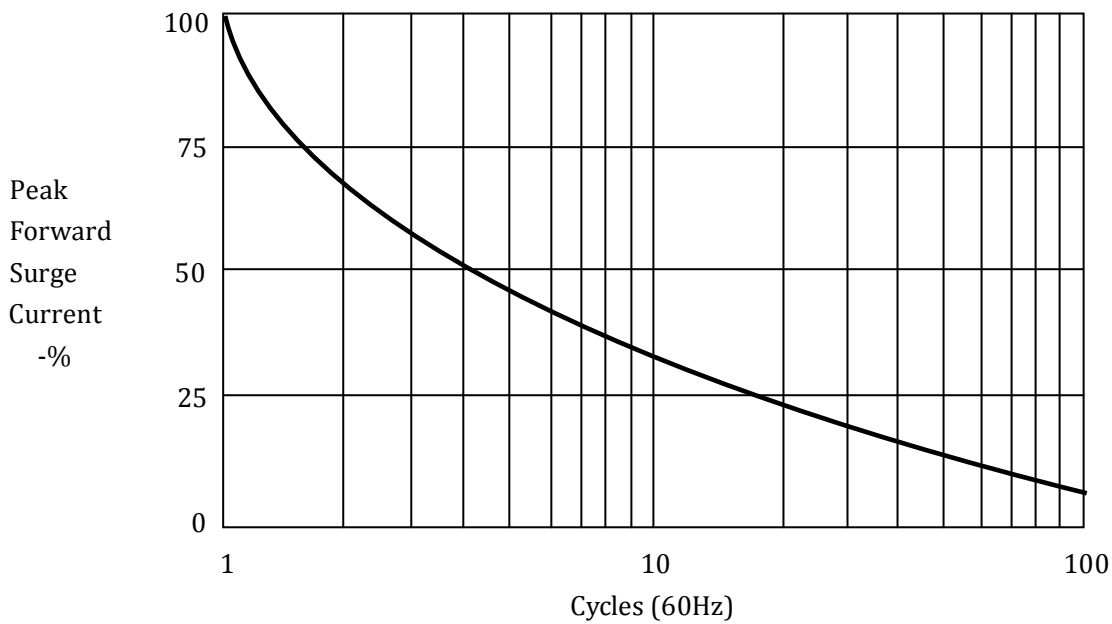


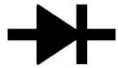
Reverse Recovery Measurement Waveform



Typical data capture points: $I_F = 0.5I_R$, $I_R, I_{RR} = 0.25I_R$
 I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

Non-Repetitive Surge Current



| | Type | Code | Cathode Mark |
|----------------|-------------|---------------------|---|
| Marking | 2CLG10KV/1A | 2CLG10KV/1A HVGT |  |