

HVGT high voltage bridge rectifier 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. Large current design.
3. Power frequency ratio.
4. Conform to RoHS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

### APPLICATIONS:

1. Ignition device power supply.
2. Microwave emission power.
3. General purpose high voltage rectifier.

### MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: built-in M5 nut.
3. Net weight: 340grams (approx).

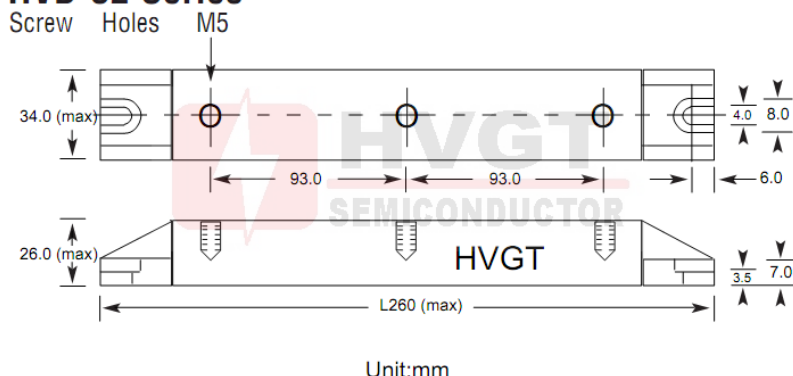
### SHAPE DISPLAY:



SIZE: (Unit:mm)

HVGT NAME: HVD-32

### HVD-32 Series



### MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

| Items                                | Symbols   | Condition                                | Data Value | Units       |
|--------------------------------------|-----------|------------------------------------------|------------|-------------|
| Repetitive Peak Reverse Voltage      | $V_{RRM}$ | $T_a=25^{\circ}C; I_R=1.0\mu A$          | 2x12       | kV          |
| Average Output Current               | $I_o$     | $T_a=25^{\circ}C; \text{Resistive Load}$ | 6.0        | A           |
| Surge Current                        | $I_{FSM}$ | $T_a=25^{\circ}C; 8.3 \text{ ms}$        | 120.0      | A           |
| Junction Temperature                 | $T_j$     |                                          | -40~+125   | $^{\circ}C$ |
| Allowable Operation Case Temperature | $T_c$     |                                          | 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 $25^{\circ}C; I_F=I_{F(AV)}$             | 2x24       | V       |
| Maximum Reverse Current       | $I_{R1}$ | at $25^{\circ}C; V_R=V_{RRM}$               | 5.0        | $\mu A$ |
|                               | $I_{R2}$ | at $100^{\circ}C; V_R=V_{RRM}$              | 50.0       | $\mu A$ |
| Maximum Reverse Recovery Time | $T_{RR}$ | at $25^{\circ}C; I_F=mA; I_R=mA; I_{RR}=mA$ | --         | nS      |
| Junction Capacitance          | $C_j$    | at $25^{\circ}C; V_R=0V; f=1MHz$            | --         | pF      |