# HVPF10

## 0.3A 10kV--SINGLE-PHASE FULL WAVE BRIDGE RECTIFIER

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 vacuumHave anticorrosion in the surface.

**APPLICATIONS:**

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

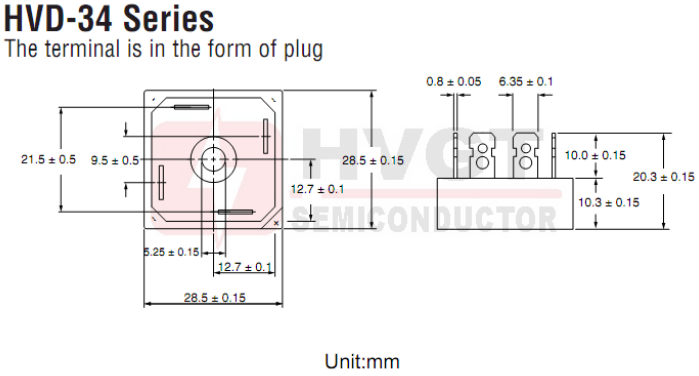
**MECHANICAL DATA:**

1. Case: epoxy resin molding.
2. Terminal: built-in M3 nut.
3. Net weight: 25grams (approx).

**SHAPE DISPLAY:**



**SIZE: (Unit:mm)** **HVGT NAME: HVD-34**




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

| Items | Symbols | Condition | Data Value | Units |
|---|---|---|---|---|
| Repetitive Peak Renerse Voltage | $V_{RRM}$ | Ta=25°C; | 10 | kV |
| Average Output Current | $I_O$ | Ta=25°C;Resistive Load | 300 | mA |
| Suege Current | $I_{FSM}$ | Ta=25°C;8.3 mS | 8.0 | A |
| Junction Temperature | $T_J$ | | -55~+150 | °C |
| Allowable Operation Case Temperature | Tc | | 125 | °C |
| Storage Temperature | $T_{STG}$ | | -55~+150 | °C |

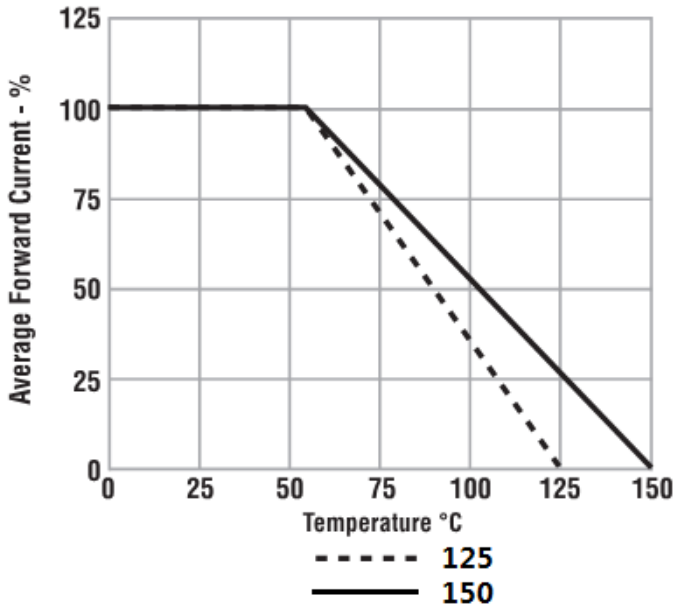
**ELECTRICAL CHARACTERISTICS:** Ta=25°C (Unless otherwise specified)

| Items | Symbols | Condition | Data value | Units |
|---|---|---|---|---|
| Maximum Forward Voltage Drop | $V_F$ | at 25°C;$I_F$ =$I_{F(AV)}$ | 12 | V |
| Maximum Reverse Current | $I_R$1 | at 25°C;$V_R$ =$V_{RRM}$ | 2.0 | uA |
| | $I_R$2 | at 100°C;$V_R$ =$V_{RRM}$ | 50 | uA |
| Maximum Reverse Recovery Time | $T_{RR}$ | at 25°C; $I_F$=mA; $I_R$=mA; $I_{RR}$=mA | -- | nS |
| Junction Capacitance | $C_J$ | at 25°C; $V_R$=0V; f=1MHz | -- | pF |


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## Fig 1

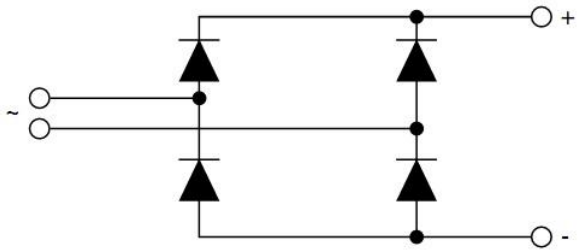
**Forward Current Derating Curve**




Show average current rating at 55°C,
unless otherwise specified.
Max operating temperature is 150°C,
unless otherwise specified.

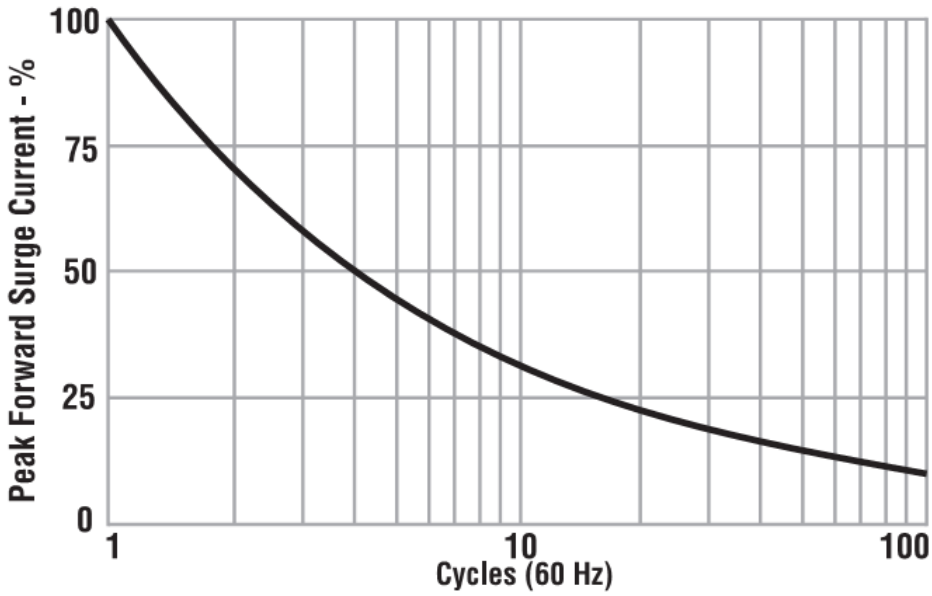
## Fig 2

**Circuit Configuration**




## Fig 3

**Repetitive Surge Current Derating Curve**




This curve represents the percentage of published maximum surge rating as a function of surge repetition.


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