

**INTRODUCE:**

HVGT high voltage axial lead rectifier assembly 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. GPP chip.
3. High current . low forward voltage
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

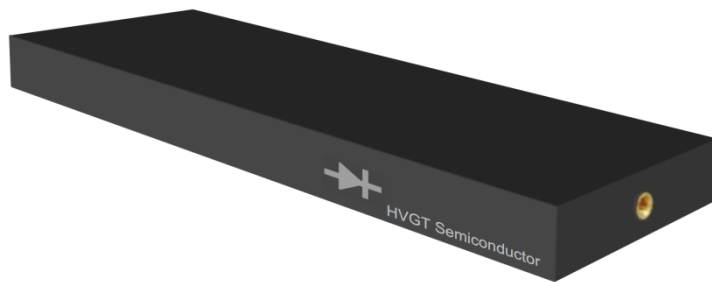
**APPLICATIONS:**

1. Accelerator power supply.
2. High voltage test equipment circuit .
3. General purpose high voltage rectifier.
4. Environmental desulfurization system.

**MECHANICAL DATA:**

1. Case: epoxy resin molding.
2. Terminal: screw holes.
3. Net weight: 1180 grams (approx).

**SHAPE DISPLAY:**

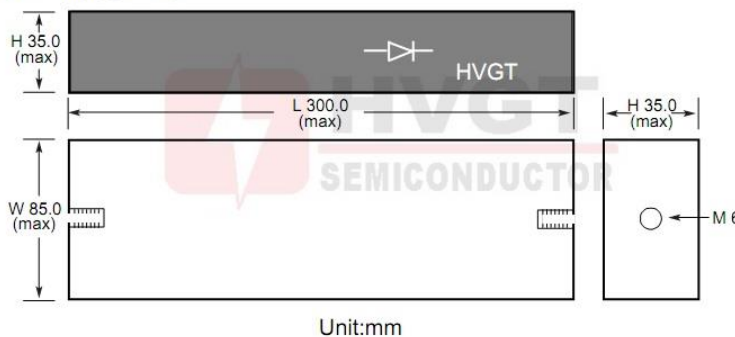


**SIZE: (Unit:mm)**

**HVGT NAME: HVC-308535**

**HVC-308535 Series**

Screw Holes M6



Unit:mm

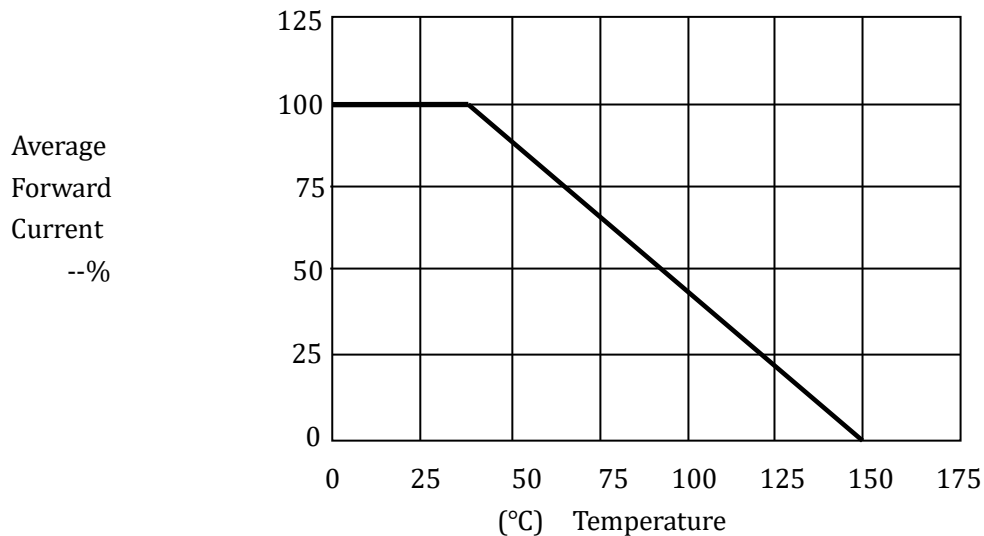
**MAXIMUM RATINGS AND CHARACTERISTICS:** (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	$T_A=25^{\circ}C$	250	kV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$T_A=25^{\circ}C$	300	kV
Average Forward Current Maximum	$I_{FAVM}$	$T_A=40^{\circ}C$ ; 50Hz Half-Sine Wave; Resistance load	2.0	A
Non-Repetitive Forward Surge Current	$I_{FSM}$	$T_A=25^{\circ}C$ ; 50Hz Half-Sine Wave; 8.3mS	80	A
Junction Temperature	$T_j$		150	$^{\circ}C$
Allowable Operation Case Temperature	$T_c$		-40~+150	$^{\circ}C$
Storage Temperature	$T_{STG}$		-55~+175	$^{\circ}C$

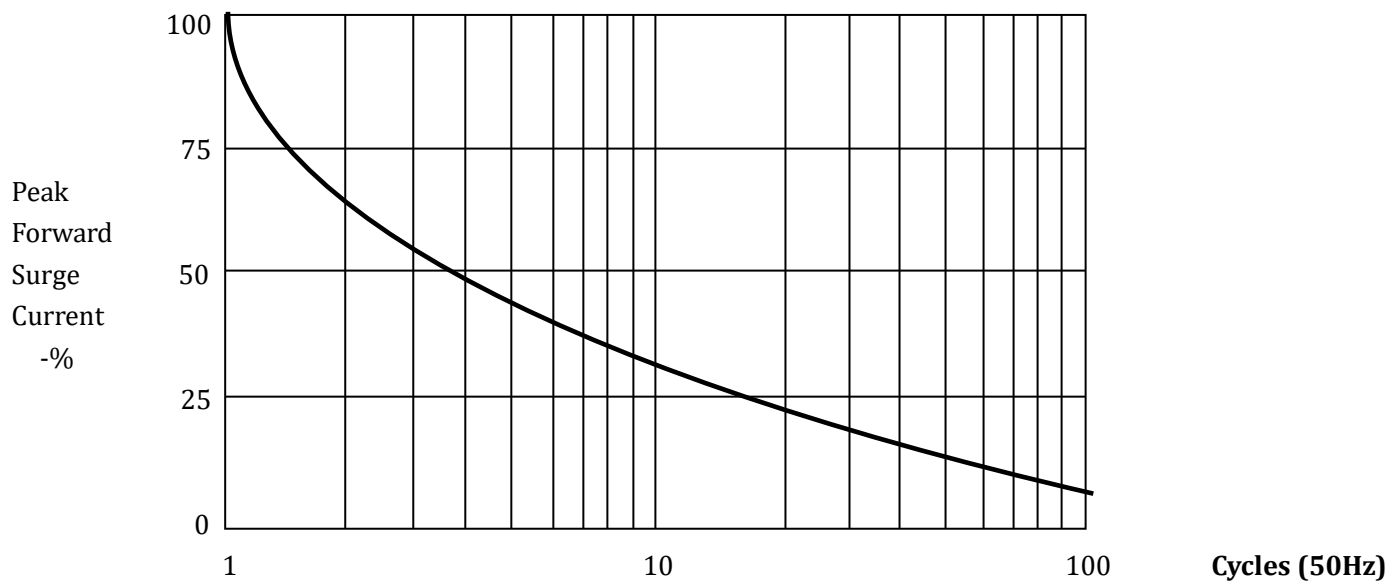
**ELECTRICAL CHARACTERISTICS:**  $T_A=25^{\circ}C$  (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	$V_{FM}$	at $25^{\circ}C$ ; at $I_{FAVM}$	275	V
Maximum Reverse Current	$I_{R1}$	at $25^{\circ}C$ ; at $V_{RRM}$	5.0	$\mu A$
	$I_{R2}$	at $100^{\circ}C$ ; at $V_{RRM}$	50	$\mu A$
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

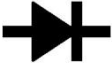
#### Forward Current Derating Curve



#### Non-Repetitive Surge Current



#### MARKING:

Type	Code	Cathode Mark
YG020S251D	YG020S251D HVGT	

#### PART NUMBER NOTE:

Type	Chip	I <sub>F(AV)</sub>	Connecting end	V <sub>RRM</sub>	T <sub>RR</sub>
<b>Y</b>	<b>G</b>	<b>020</b>	<b>S</b>	<b>251</b>	<b>D</b>
Assembly Y Series	GPP Chip	2.0A	L=Lead S=Screw Holes	250kV	(U)75ns (G)100ns (D) Standard Recovery Time