

**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:**

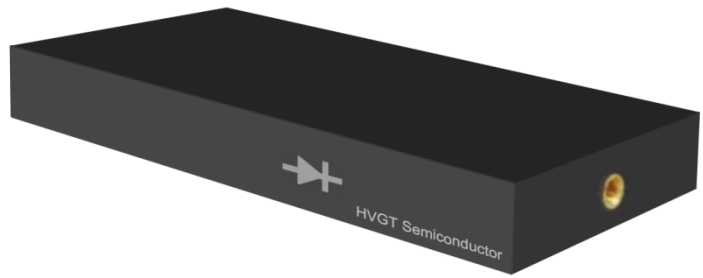
1. High reliability design.
2. GPP chip.
3. High frequency, Ultra-Fast recovery.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

**APPLICATIONS:**

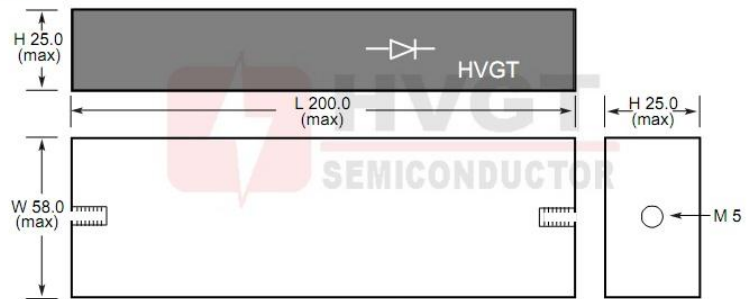
1. High voltage multiplier circuit
2. electrostatic precipitators.
3. General purpose high voltage rectifier.
4. Pulse rectifier circuit

**MECHANICAL DATA:**

1. Case: epoxy resin molding.
2. Terminal: screw holes.
3. Net weight: 490 grams (approx).

**SHAPE DISPLAY:**

**SIZE: (Unit:mm)**
**HVGT NAME: HVC-205825**
**HVC-205825 Series**

Screw Holes M5



Unit:mm

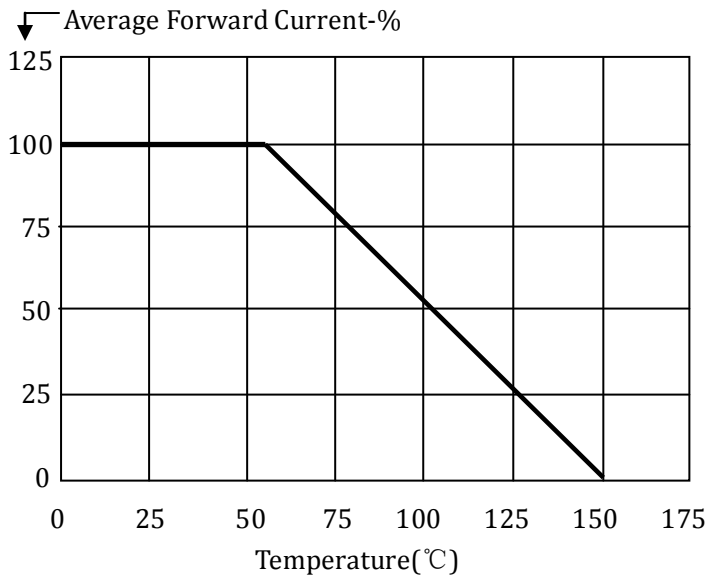
**MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)**

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	$T_A=25^{\circ}C$	15	kV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$T_A=25^{\circ}C$	18	kV
Average Forward Current Maximum	$I_{FAVM}$	$T_A=55^{\circ}C$	6.0	A
		$T_{OIL}=55^{\circ}C$	9.0	A
Non-Repetitive Forward Surge Current	$I_{FSM}$	$T_A=25^{\circ}C$ ; 50Hz Half-Sine Wave; 8.3ms	180	A
Junction Temperature	$T_J$		150	$^{\circ}C$
Allowable Operation Case Temperature	$T_c$		-40~+150	$^{\circ}C$
Storage Temperature	$T_{STG}$		-40~+175	$^{\circ}C$

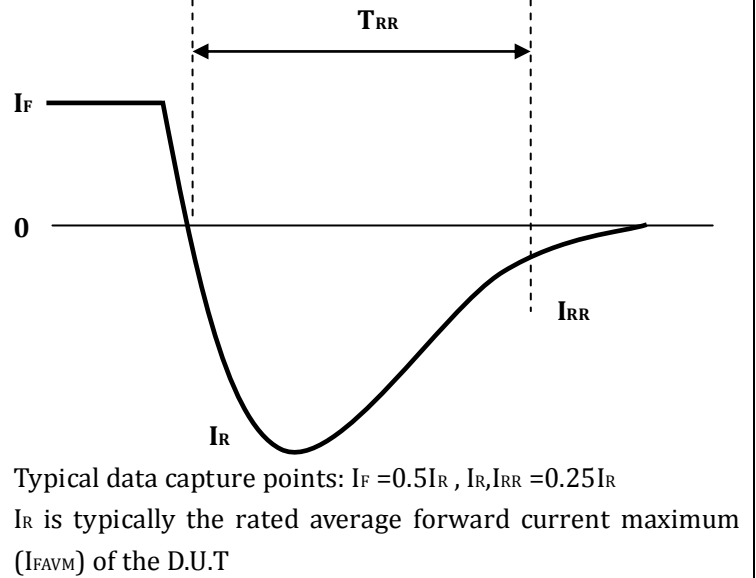
**ELECTRICAL CHARACTERISTICS:  $T_A=25^{\circ}C$  (Unless Otherwise Specified)**

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	$V_{FM}$	at $25^{\circ}C$ ; at $I_{FAVM}$	26	V
Maximum Reverse Current	$I_{R1}$	at $25^{\circ}C$ ; at $V_{RRM}$	2.0	$\mu A$
	$I_{R2}$	at $100^{\circ}C$ ; at $V_{RRM}$	50	$\mu A$
Maximum Reverse Recovery Time	$T_{RR}$	at $25^{\circ}C$ ; $I_f=0.5I_R$ ; $I_R=I_{FAVM}$ ; $I_{RR}=0.25I_R$	75	nS
Junction Capacitance	$C_J$	at $25^{\circ}C$ ; $V_R=0V$ ; $f=1MHz$	--	pF

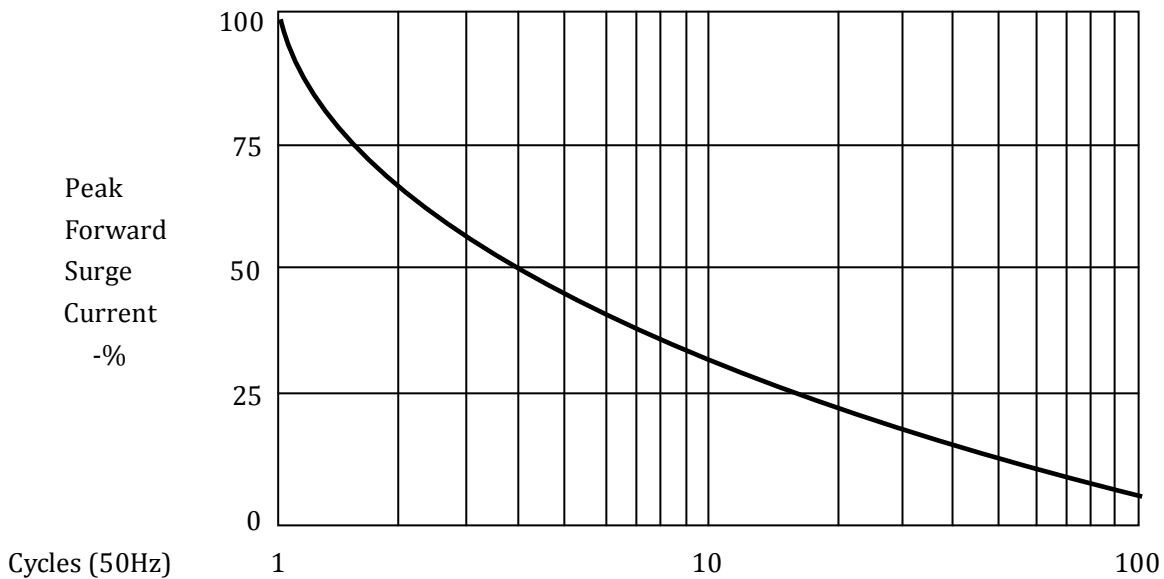
**Forward Current Derating Curve**



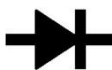
**Reverse Recovery Measurement Waveform**



**Non-Repetitive Surge Current**



**MARKING:**

Type	Code	Cathode Mark
AG060H150U	AG060H150U HVGT	

**MODEL NOTE:**

Type	Chip	$I_{F(AV)}$	Frequency	$V_{RRM}$	$T_{RR}$
<b>A</b>	<b>G</b>	<b>060</b>	<b>H</b>	<b>150</b>	<b>U</b>
Assembly Series	GPP Chip	6.0A	High Frequency	15kV	(U)75ns (G)100ns (D) Standard Recovery Time