

**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:**

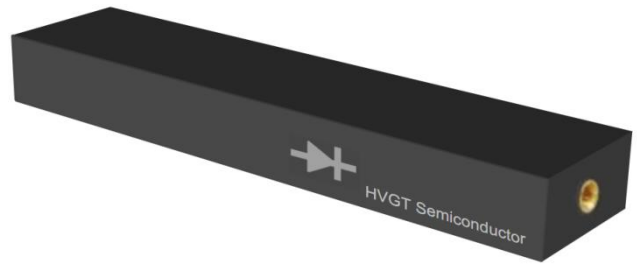
1. High reliability design.
2. Very high voltage.
3. High frequency, Fast recovery.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

**APPLICATIONS:**

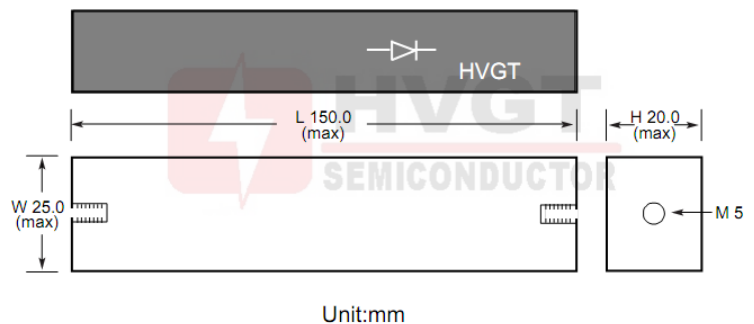
1. High voltage multiplier circuit
2. electrostatic precipitators.
3. General purpose high voltage rectifier.
4. Pulse rectifier circuit

**MECHANICAL DATA:**

1. Case: epoxy resin molding.
2. Terminal: screw holes.
3. Net weight: 120 grams (approx).

**SHAPE DISPLAY:**

**SIZE: (Unit:mm)**
**HVGT NAME: HVC-152520**
**HVC-152520 Series**

Screw Holes M5

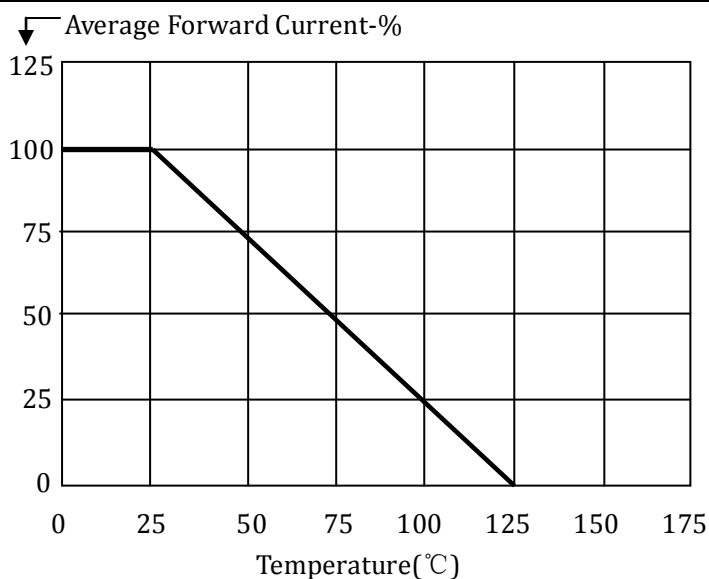

**MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)**

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	$T_A=25^{\circ}C$	50	kV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$T_A=25^{\circ}C$	60	kV
Average Forward Current Maximum	$I_{FAVM}$	$T_A=25^{\circ}C$ ; 50Hz Half-Sine Wave; Resistance load	1.0	A
Non-Repetitive Forward Surge Current	$I_{FSM}$	$T_A=25^{\circ}C$ ; 50Hz Half-Sine Wave; 8.3ms	30	A
Junction Temperature	$T_J$		125	$^{\circ}C$
Allowable Operation Case Temperature	$T_C$		-40~+125	$^{\circ}C$
Storage Temperature	$T_{STG}$		-40~+150	$^{\circ}C$

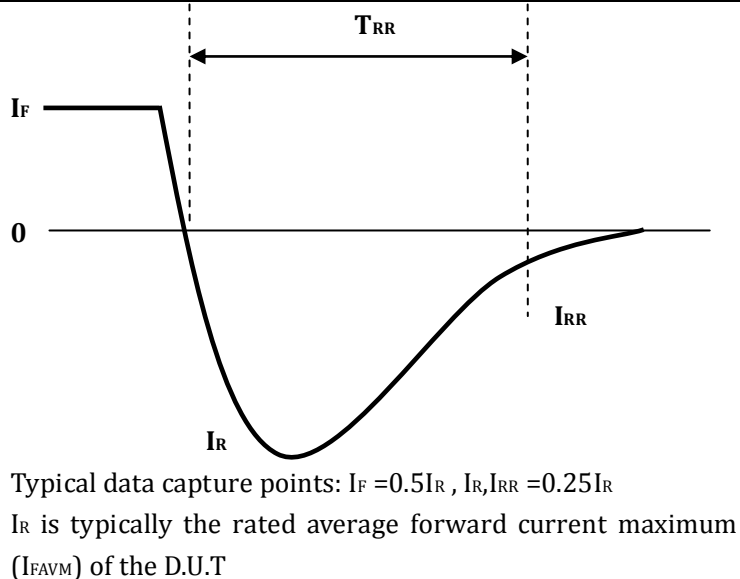
**ELECTRICAL CHARACTERISTICS:  $T_A=25^{\circ}C$  (Unless Otherwise Specified)**

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	$V_{FM}$	at $25^{\circ}C$ ; at $I_{FAVM}$	70	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 $25^{\circ}C$ ; $I_F=0.5I_R$ ; $I_R=I_{FAVM}$ ; $I_{RR}=0.25I_R$	100	nS
Junction Capacitance	$C_J$	at $25^{\circ}C$ ; $V_R=0V$ ; $f=1MHz$	--	pF

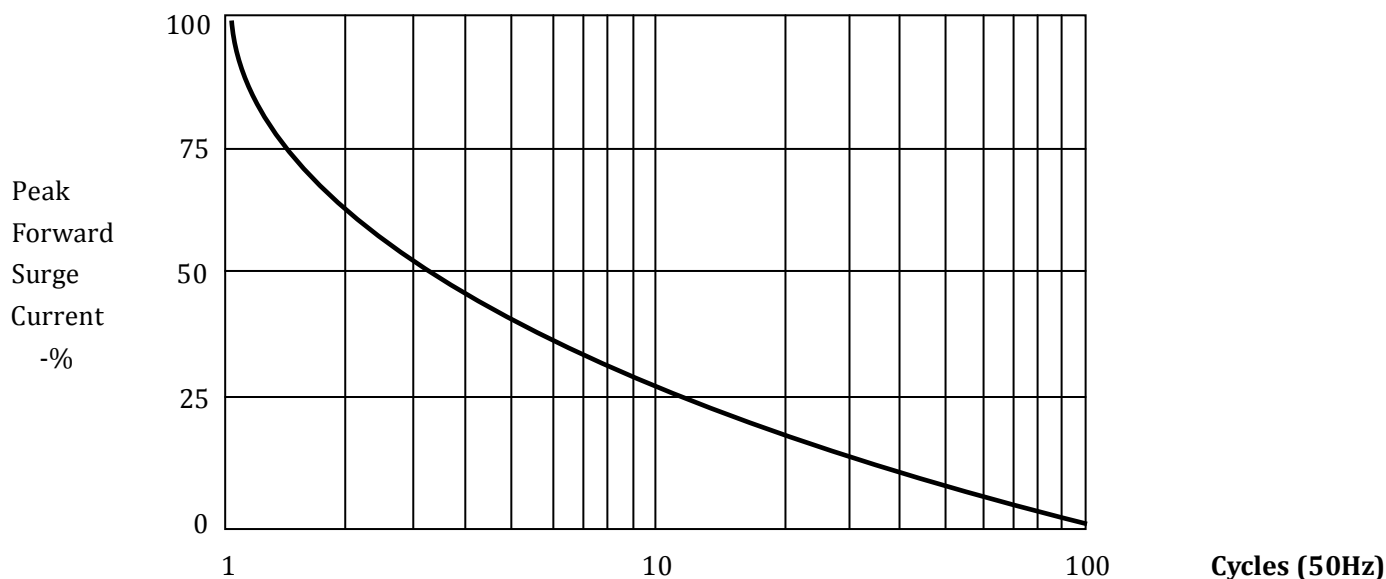
**Forward Current Derating Curve**



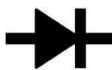
**Reverse Recovery Measurement Waveform**



**Non-Repetitive Surge Current**



**MARKING:**

Type	Code	Cathode Mark
AW010S500G	AW010S500G HVGT	

**MODEL NOTE:**

Type	Chip	$I_{F(AV)}$	Frequency	$V_{RRM}$	$T_{RR}$
<b>A</b>	<b>W</b>	<b>010</b>	<b>S</b>	<b>500</b>	<b>G</b>
Assembly Series	Wafer Chip	1.0A	L=Lead S=Screw Holes	50kV	(U)75ns (G)100ns (D) Standard Recovery Time