

**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:**

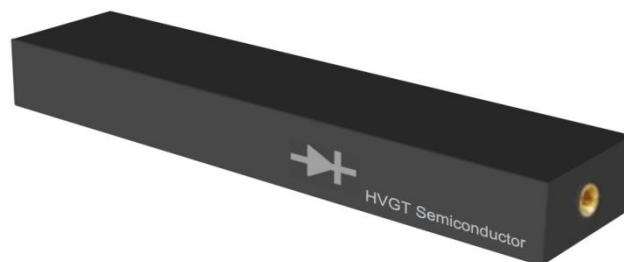
1. High reliability design.
2. Very high voltage.
3. High frequency, Fast recovery.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuum Have anticorrosion in the surface.

**APPLICATIONS:**

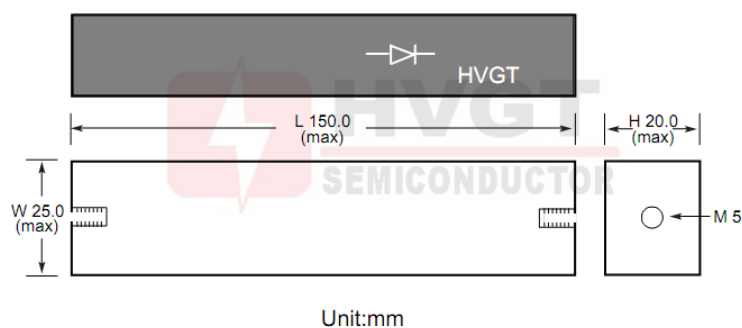
1. High voltage multiplier circuit
2. electrostatic precipitators.
3. General purpose high voltage rectifier.
4. Pulse rectifier circuit

**MECHANICAL DATA:**

1. Case: epoxy resin molding.
2. Terminal: screw holes.
3. Net weight: 118 grams (approx).

**SHAPE DISPLAY:**

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

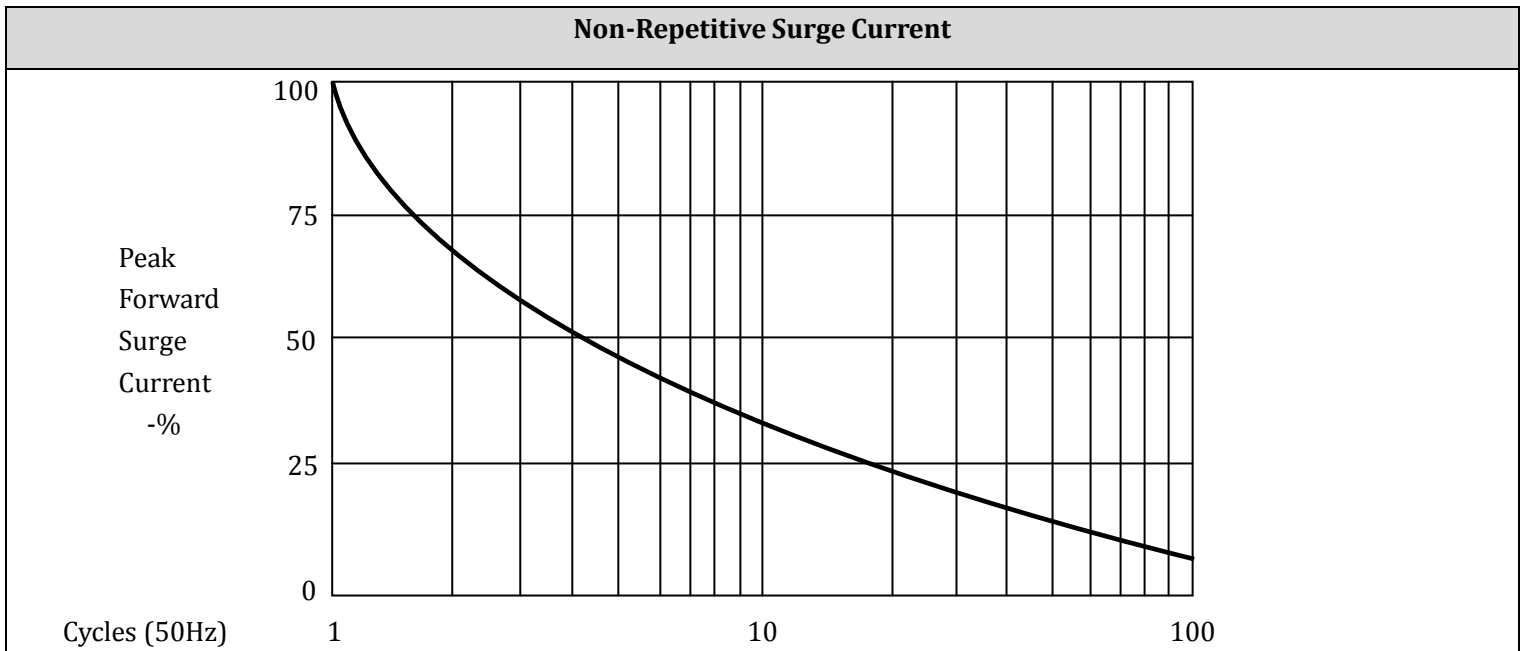
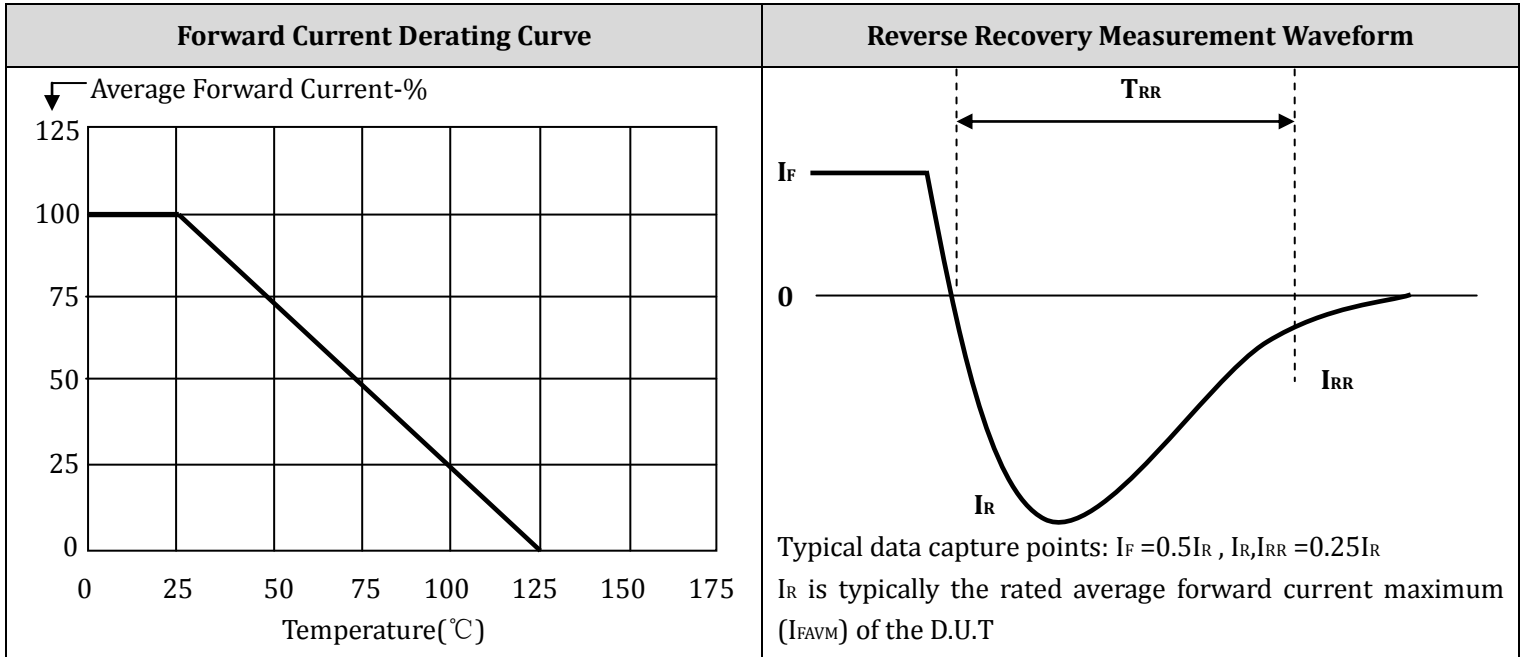
Screw Holes M5


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

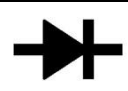
Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	$T_A=25^{\circ}C$	20	kV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$T_A=25^{\circ}C$	24	kV
Average Forward Current Maximum	$I_{FAVM}$	$T_A=25^{\circ}C$	4.0	A
		$T_{OIL}=55^{\circ}C$	4.0	A
Non-Repetitive Forward Surge Current	$I_{FSM}$	$T_A=25^{\circ}C$ ; 50Hz Half-Sine Wave; 8.3mS	80	A
Junction Temperature	$T_J$		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 $I_{FAVM}$	28.8	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 $25^{\circ}C$ ; $I_F=0.5I_R$ ; $I_R=I_{FAVM}$ ; $I_{RR}=0.25I_R$	75	nS
Junction Capacitance	$C_J$	at $25^{\circ}C$ ; $V_R=0V$ ; $f=1MHz$	--	pF



**MARKING:**

Type	Code	Cathode Mark
AW040S200U	AW040S200U HVGT	

**PART NUMBER NOTE:**

Type	Chip	$I_{F(AV)}$	Connecting end	$V_{RRM}$	$T_{RR}$
<b>A</b>	<b>W</b>	<b>040</b>	<b>S</b>	<b>200</b>	<b>U</b>
Assembly Series	Wafer Chip	4.0A	L=Lead S=Screw Holes	20kV	(U)75ns (G)100ns (D) Standard Recovery Time