

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.

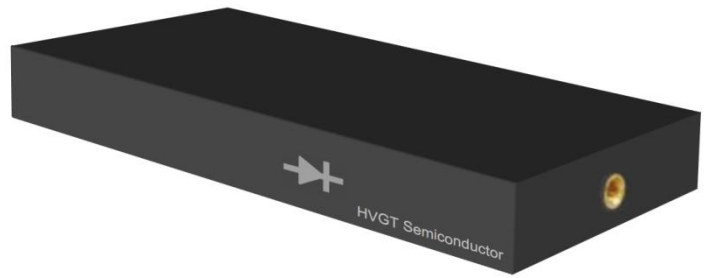
APPLICATIONS:

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: 1050 grams (approx).

SHAPE DISPLAY:

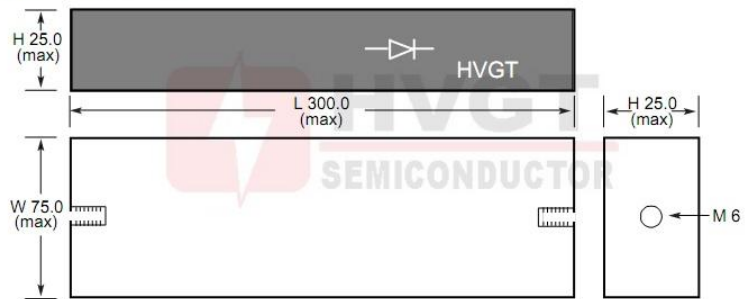


SIZE: (Unit:mm)

HVGT NAME: HVC-307525

HVC-307525 Series

Screw Holes M6



Unit:mm

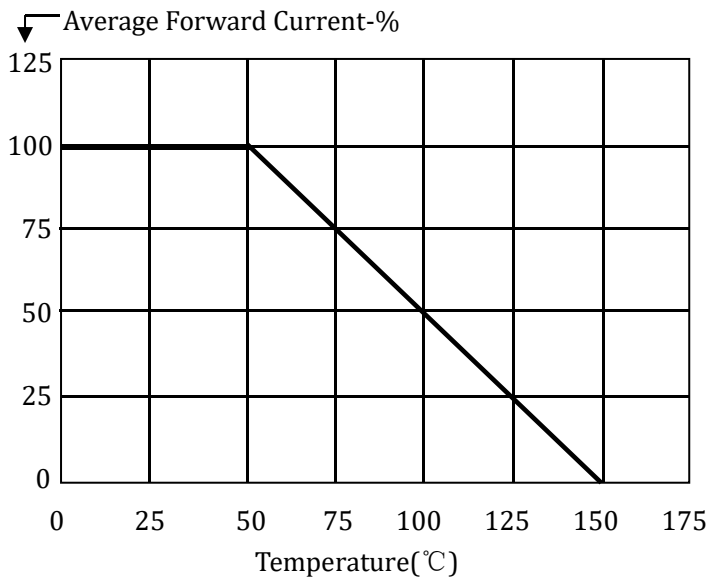
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	40	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	48	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=50^{\circ}C$; 50Hz Half-Sine Wave; Resistance load	5.0	A
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 50Hz Half-Sine Wave; 8.3ms	200	A
Junction Temperature	T_J		150	$^{\circ}C$
Allowable Operation Case Temperature	T_C		-40~+150	$^{\circ}C$
Storage Temperature	T_{STG}		-55~+175	$^{\circ}C$

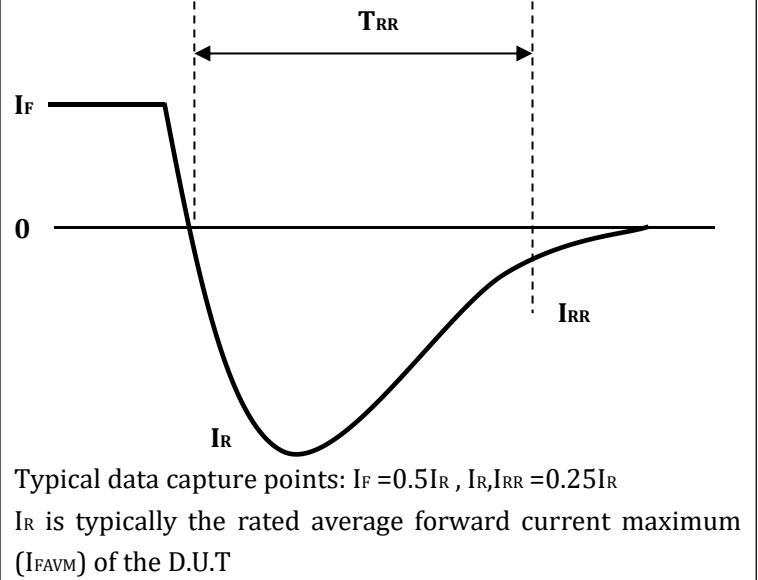
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at I_{FAVM}	69.6	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	2.0	μA
	I_{R2}	at $100^{\circ}C$; at V_{RRM}	20	μA
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

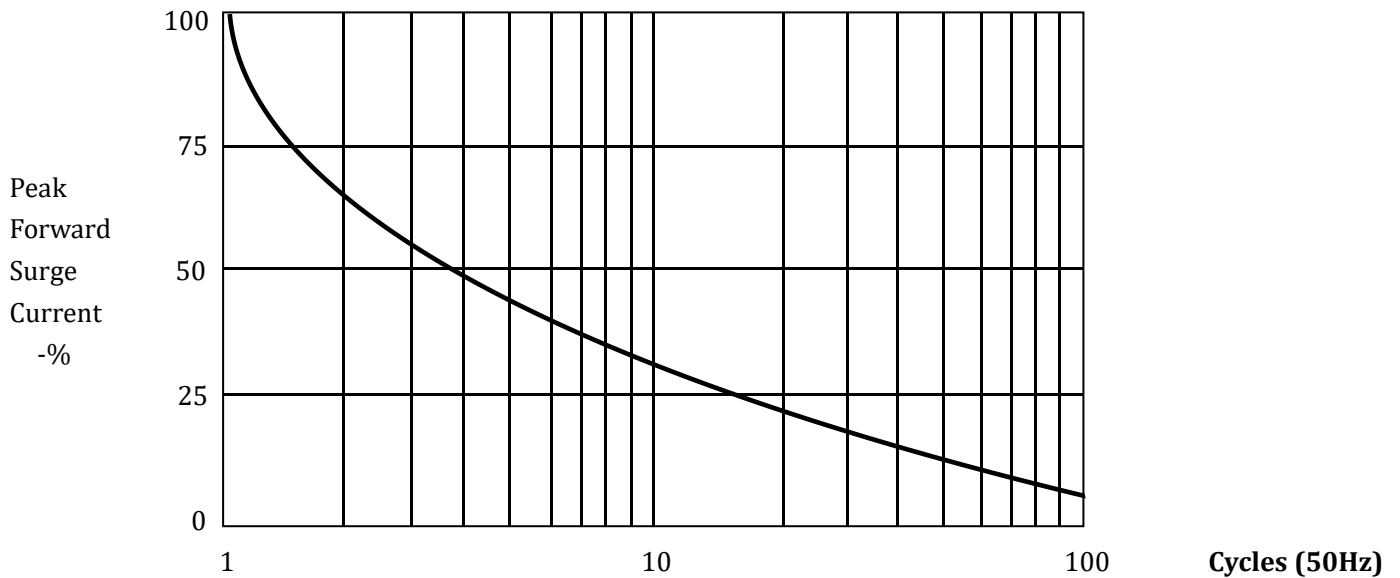
Forward Current Derating Curve



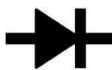
Reverse Recovery Measurement Waveform



Non-Repetitive Surge Current



MARKING:

Type	Code	Cathode Mark
AG050S400U	AG050S400U HVGT	

PART NUMBER NOTE:

Type	Chip	$I_{F(AV)}$	Connecting end	V_{RRM}	T_{RR}
A	G	050	S	400	U
Assembly Series	GPP Chip	5.0A	L=Lead S=Screw Holes	40kV	(U)75ns (G)100ns (D) Standard Recovery Time