

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. X-ray machines.

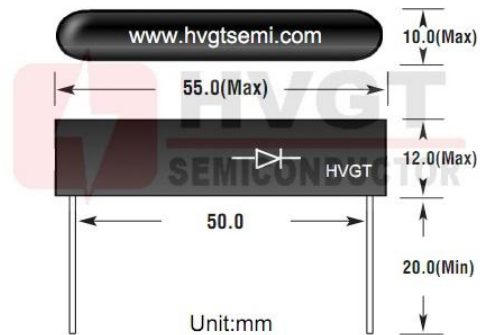
MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: radial welding lead.
3. Net weight: 11.0 grams (approx).

SHAPE DISPLAY:

SIZE: (Unit:mm)
HVGT NAME: HVR-101255H
HVR-101255H Series

Lead Diameter 1.20mm ±0.02



Unit:mm

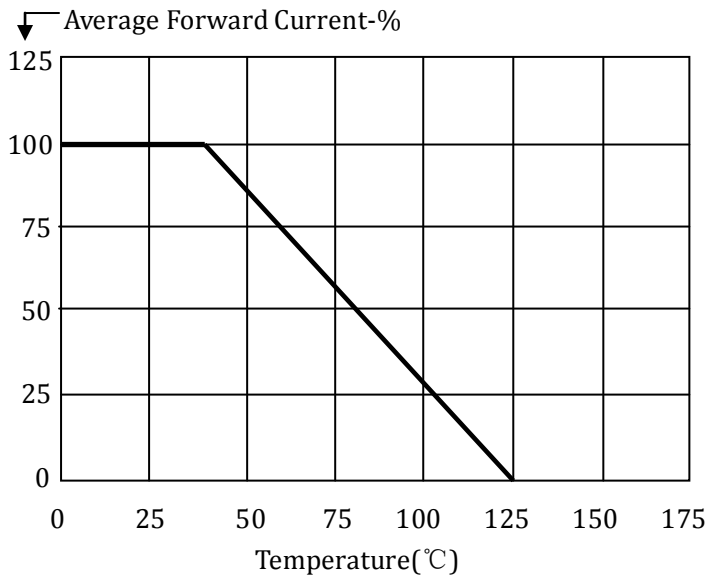
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	12	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	14.4	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=40^{\circ}C$	1.0	A
		$T_{OIL}=55^{\circ}C$	1.5	A
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 50Hz Half-Sine Wave; 8.3ms	20	A
Junction Temperature	T_J		125	$^{\circ}C$
Allowable Operation Case Temperature	T_C		-40~+125	$^{\circ}C$
Storage Temperature	T_{STG}		-40~+150	$^{\circ}C$

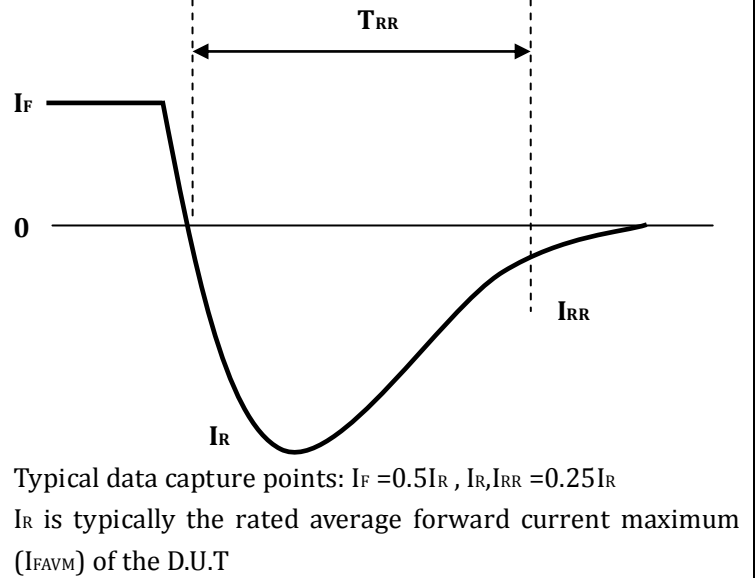
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at I_{FAVM}	17.3	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}	50	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	100	nS
Junction Capacitance	C_J	at $25^{\circ}C$; $V_R=0V$; $f=1MHz$	--	pF

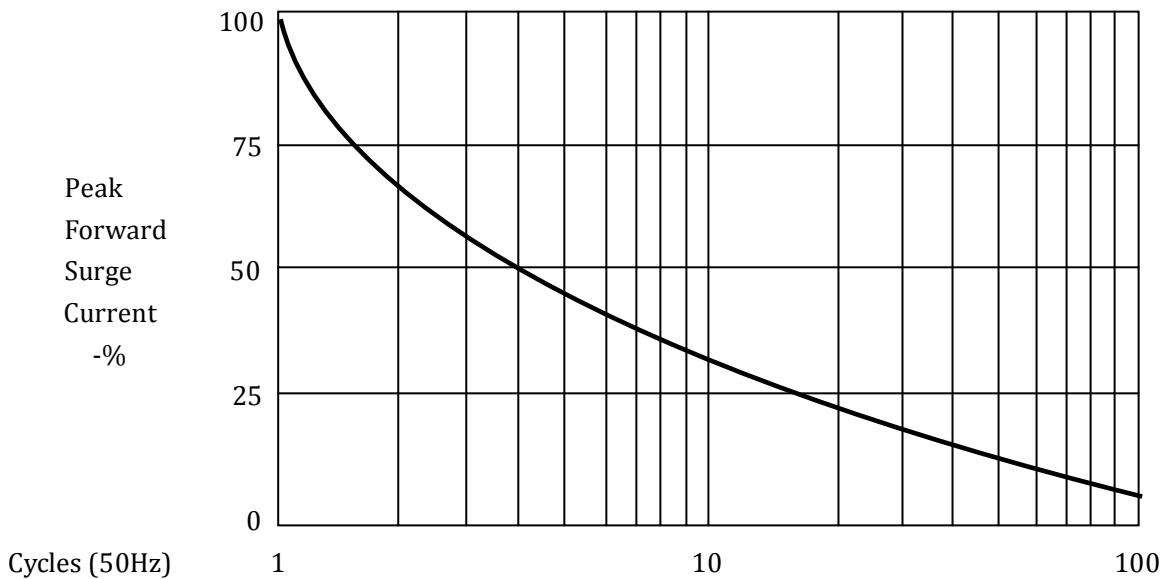
Forward Current Derating Curve



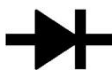
Reverse Recovery Measurement Waveform



Non-Repetitive Surge Current



MARKING:

Type	Code	Cathode Mark
HVR5510F12	HVR5510F12 HVGT	

MODEL NOTE:

Type	Chip	$I_{F(AV)}$	T_{RR}	V_{RRM}
HVR	55	10	F	12
Radial Lead Assembly Series	Structure	1.0A	(U)75ns (F)100ns (S) Standard Recovery Time	12kV