HVR5510F10 1.0A 10kV 100nS

Fast Recovery High Voltage Rectifier Subassembly

INTRODUCE:

HVGT high voltage silicon rectifier assembly is made of high quality glass passivated chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers.

FEATURES:

1. High reliability design.
2. High voltage design.
3. Fast Recovery.
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

APPLICATIONS:

1. High voltage multiplier circuit
2. HV Switching Mode Power Supply .
3. General purpose high voltage rectifier.
4. Other.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Net weight: 11 grams (approx).

SHAPE DISPLAY:



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



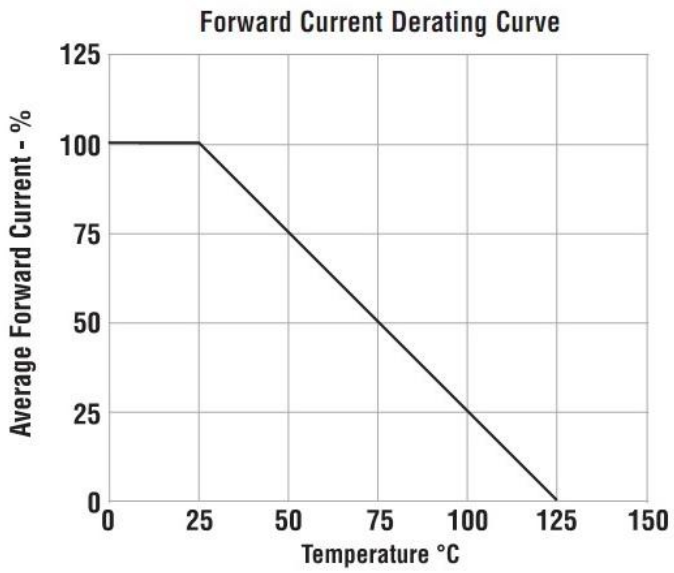
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

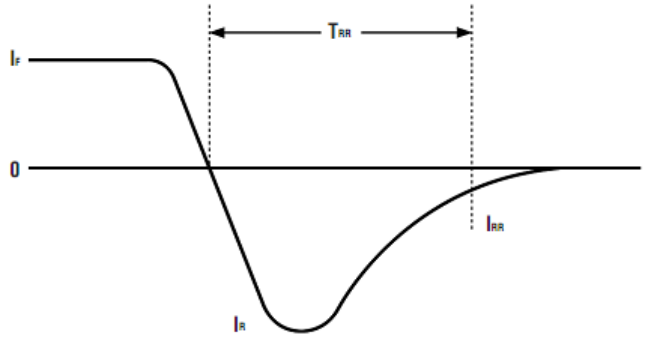
Items	Symbols	Condition	Data Value	Units
Repetitive Peak Renerse Voltage	V_{RRM}	T_A=25°C	10	kV
Non-Repetitive Peak Renerse Voltage	V_{RSM}	T_A=25°C	--	kV
Average Forward Current Maximum	I_{FAVM}	T_A=25°C	1.0	A
		T_{OIL}=55°C	--	A
Non-Repetitive Forward Surge Current	I_{FSM}	T_A=25°C; 60Hz Half-Sine Wave; 8.3mS	30	A
Junction Temperature	T_J		125	°C
Allowable Operation Case Temperature	Tc		-40~+125	°C
Storage Temperature	T_{STG}		-40~+125	°C

ELECTRICAL CHARACTERISTICS: T_A=25°C (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at 25°C; at I_{FAVM}	14	V
Maximum Reverse Current	I_{R1}	at 25°C; at V_{RRM}	5.0	uA
	I_{R2}	at 100°C; at V_{RRM}	50	uA
Maximum Reverse Recovery Time	T_{RR}	at 25°C; I_F=0.5I_R; I_R=I_{FAVM}; I_{RR}=0.25I_R	100	nS
Junction Capacitance	C_J	at 25°C; V_R=0V; f=1MHz	6.6	pF

Fig 1	Fig 2
Forward Current Derating Curve	**Reverse Recovery Measurement Waveform**

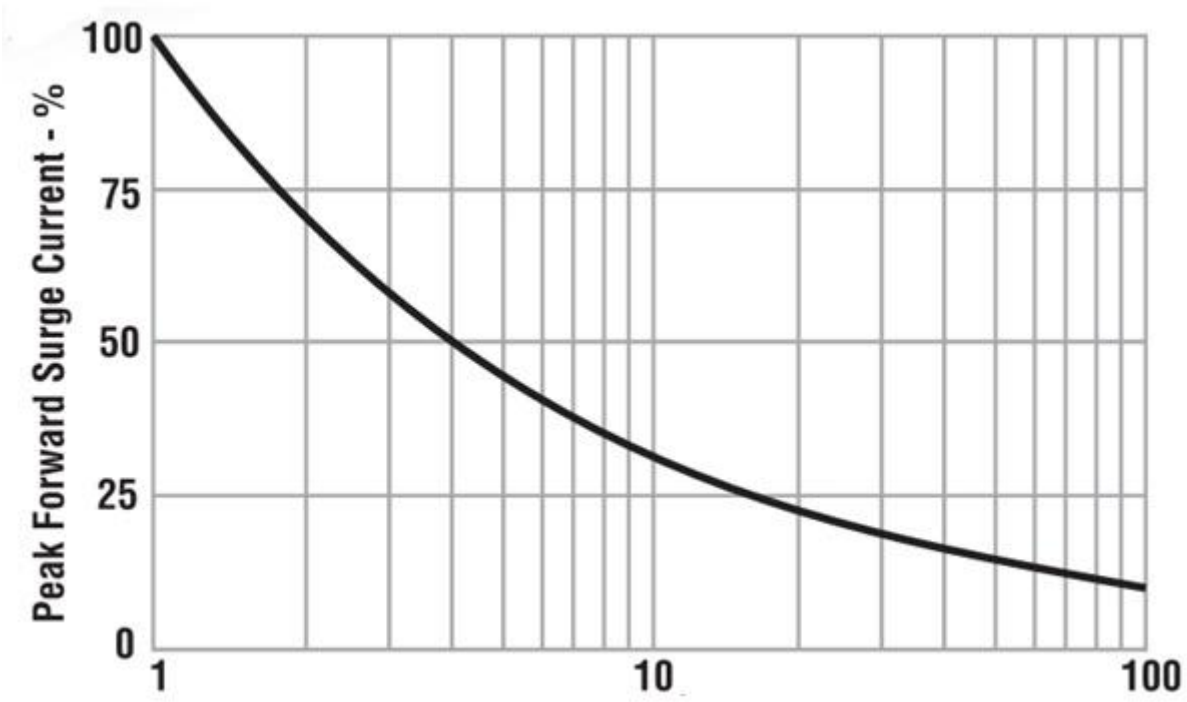




Typical data capture points: I_F =0.5I_R , I_R,I_{RR} =0.25I_R
I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

Fig 3

Non-Repetitive Surge Current



Marking	Type	Code	Cathode Mark
	HVR5510F10	HVR5510F10 HVGT	