

HVGT high voltage silicon rectifier diodes 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.

SHAPE DISPLAY:



FEATURES:

1. High reliability design.
2. High voltage design.
3. High frequency , Fast Recovery.
4. Conform to RoHS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.
6. Surface Mount.

APPLICATIONS:

1. High voltage multiplier circuit
2. High current and high voltage circuit.
3. General purpose high voltage rectifier.
4. Medical X-ray machine HV power supply.

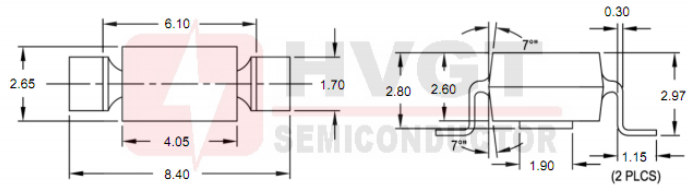
MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Minimum packing quantity: 2,000pcs.

SIZE: (Unit:mm)

HVGT NAME: SMA-G

SMA-G Series
Sma-Gullwing



Unit:mm

MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Rense Voltage	V_{RRM}	$T_a=25^{\circ}C;$	5.0	kV
Average Output Current	I_F	$T_a=55^{\circ}C;$ Resistive Load	270	mA
Suege Current	I_{FSM}	$T_a=25^{\circ}C;$ 1/2 Sine(60Hz) ; 8.3mS	10	A
Junction Temperature	T_J		-40~+125	$^{\circ}C$
Allowable Operation Case Temperature	T_c		125	$^{\circ}C$
Storage Temperature	T_{STG}		-40~+125	$^{\circ}C$

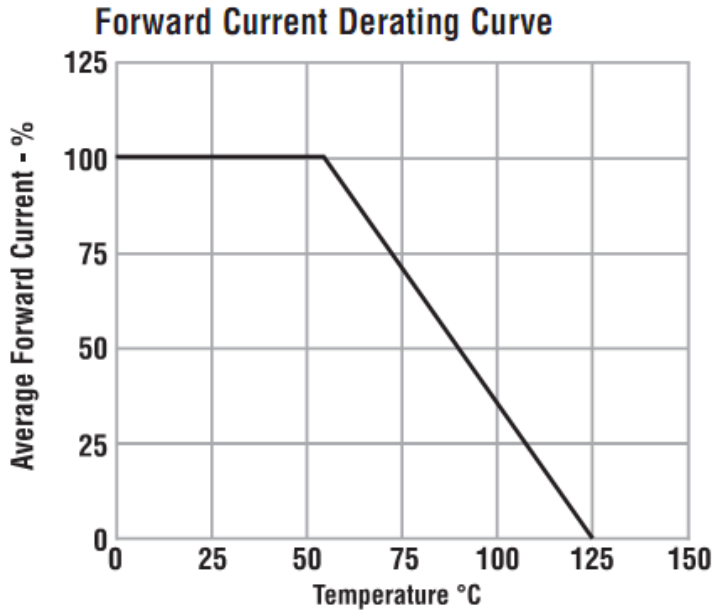
ELECTRICAL CHARACTERISTICS: $T_a=25^{\circ}C$ (Unless otherwise specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_F	at $25^{\circ}C;$ $I_F=100mA$	8.5	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C;$ $V_R=V_{RRM}$	0.5	μA
	I_{R2}	at $100^{\circ}C;$ $V_R=V_{RRM}$	10	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 $25^{\circ}C;$ $V_R=0V;$ $f=1MHz$	4.5	pF



Fig 1

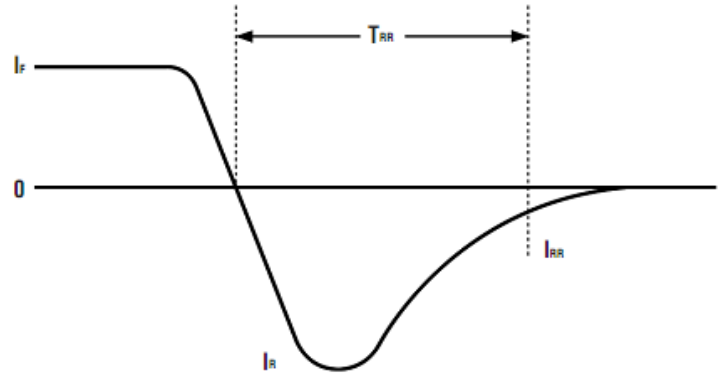
Forward Current Derating Curve



Show average current rating at 55°C, unless otherwise specified.
Max operating temperature is 125°C, unless otherwise specified.

Fig 2

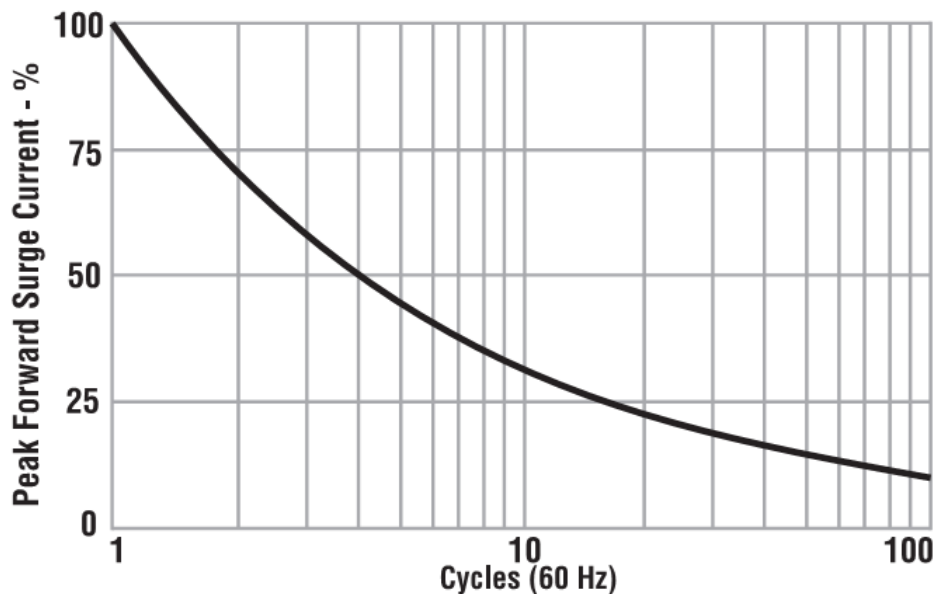
Reverse Recovery Measurement Waveform



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

Repetitive Surge Current Derating Curve



This curve represents the percentage of published maximum surge rating as a function of surge repetition.