

INTRODUCE:

HVGT high voltage silicon rectifier diodes 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:

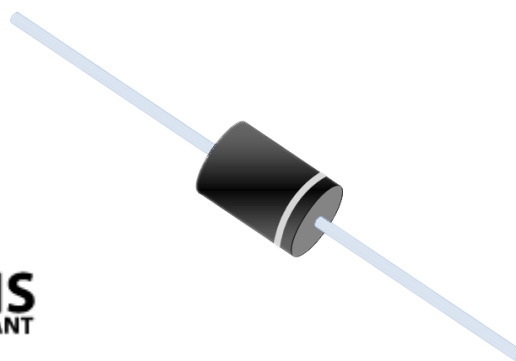
1. High overload surge capability.
2. Avalanche Characteristic.
3. High Current, Low Forward Voltage
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

APPLICATIONS:

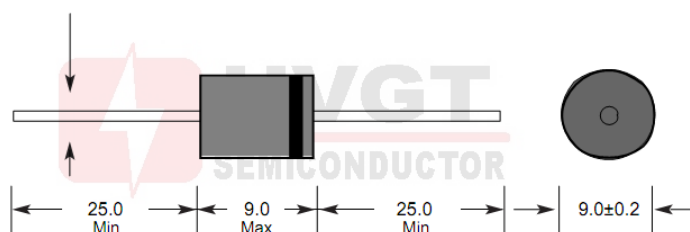
1. Rectifier for high voltage power supply.
2. General purpose high voltage rectifier. .
3. Rectification for X-ray generator high voltage power supply.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Net weight: 2.30 grams (approx).

SHAPE DISPLAY:

SIZE: (Unit:mm)
HVGT NAME: DO-990
DO-990 Series

Lead Diameter 1.2mm



Unit:mm

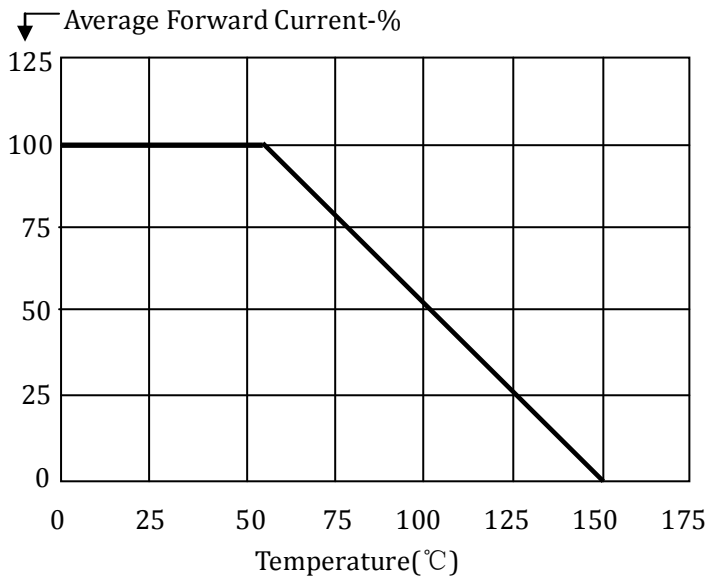
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	1.0	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	--	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=55^{\circ}C$	2.5	A
		$T_{OIL}=55^{\circ}C$	--	A
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 60Hz 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}		-40~+150	$^{\circ}C$

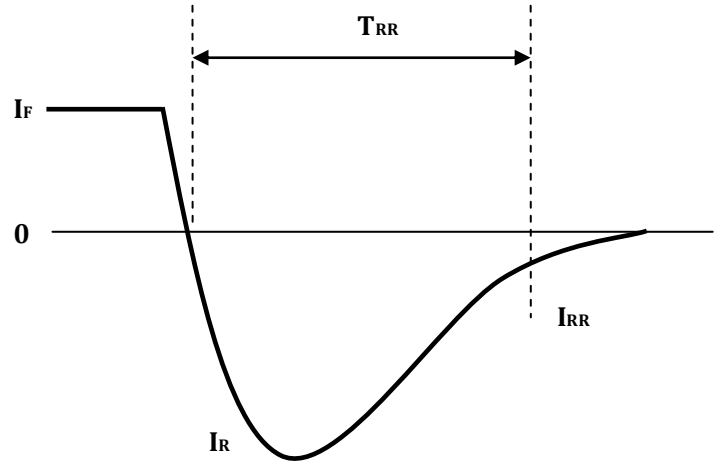
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at I_{FAVM}	2.0	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	10	μA
	I_{R2}	at $100^{\circ}C$; at V_{RRM}	50	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	150	nS
Junction Capacitance	C_J	at $25^{\circ}C$; $V_R=0V$; $f=1MHz$	105	pF

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

Non-Repetitive Surge Current



Marking	Type	Code	Cathode Mark
	HVRW1	HVRW1 HVGT	