

INTRODUCE:

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.

FEATURES:

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

APPLICATIONS:

1. High voltage multiplier circuit
2. Electrostatic generator circuit .
3. General purpose high voltage rectifier.
4. For working automobile electronics equipment.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Net weight: 0.28 grams (approx).

SHAPE DISPLAY:

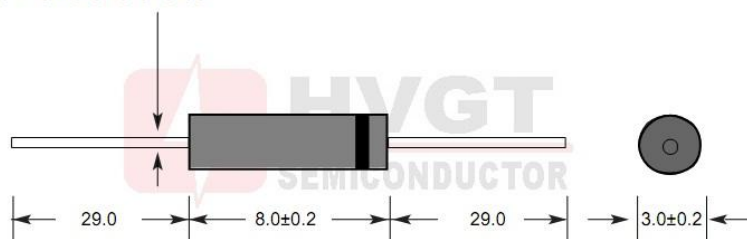


SIZE: (Unit:mm)

HVGT NAME: DO-308

DO-308 Series

Lead Diameter 0.6±0.03



Unit:mm

MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	4.0	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	5.0	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=55^{\circ}C$; 50Hz Half-Sine Wave	50	mA
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 50Hz Half-Sine Wave; 8.3mS	3.0	A
Junction Temperature	T_J		180	$^{\circ}C$
Allowable Operation Case Temperature	T_C		-40~+125	$^{\circ}C$
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_F	at $25^{\circ}C$; at $I_{F(AV)}$	5.0	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	2.0	μA
	I_{R2}	at $175^{\circ}C$; at V_{RRM}	25	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	--	nS
Junction Capacitance	C_J	at $25^{\circ}C$; $V_R=0V$; $f=1MHz$	--	pF



Fig 1

Forward Current Derating Curve

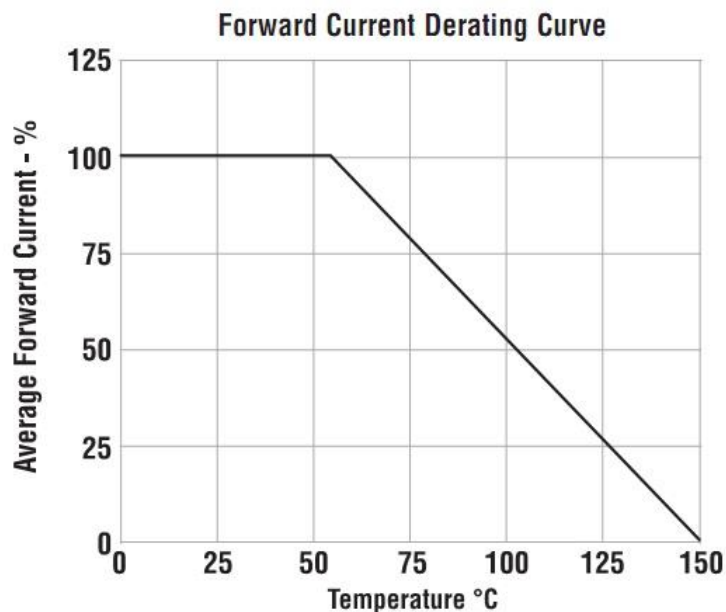
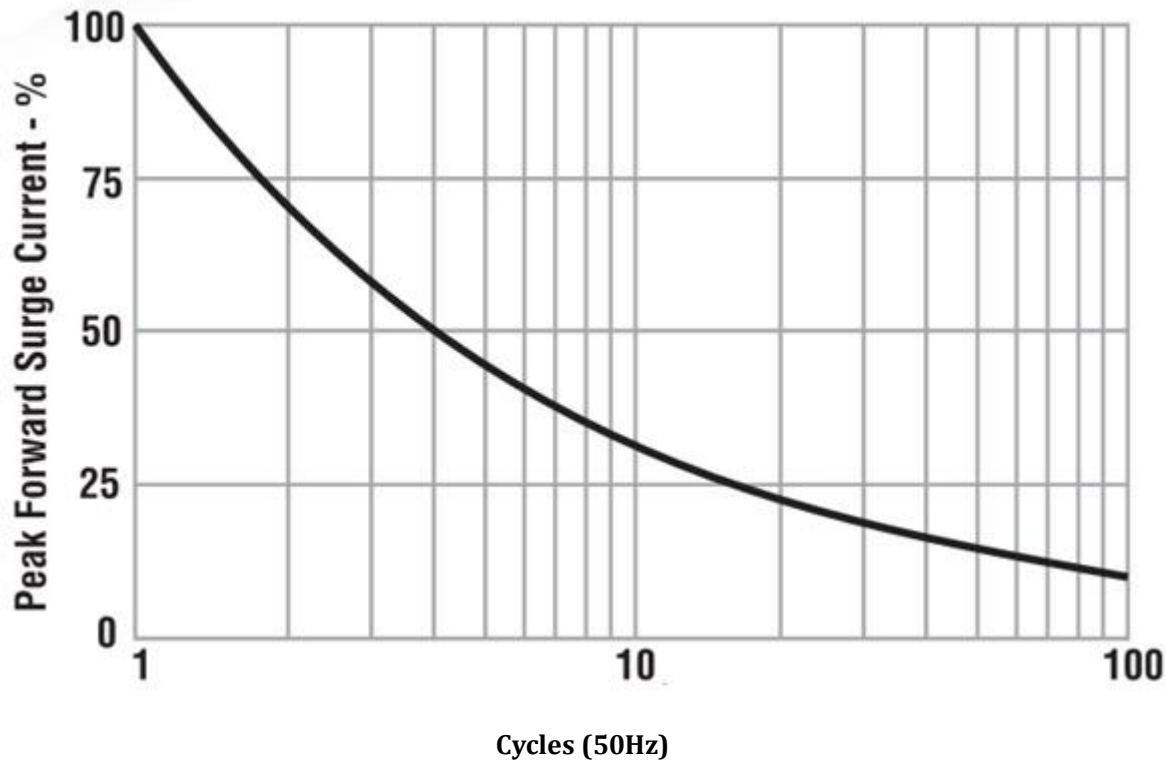


Fig 3

Non-Repetitive Surge Current



Marking

Type

HV05S04

Code

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Cathode Mark

