

INTRODUCE:

HVGT high voltage silicon 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. High voltage design.
3. High current . low forward voltage
4. Conform to RoHS and SGS.
5. Made of model shell and epoxy resin, and the surface is anti-corrosion.

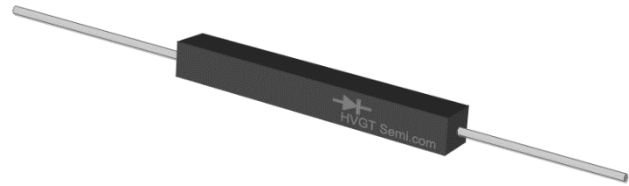
APPLICATIONS:

1. Accelerator power supply.
2. High voltage test equipment circuit .
3. General purpose high voltage rectifier.

MECHANICAL DATA:

1. Shell and epoxy resin flammability: UL94V-0(Equivalent).
2. Terminal: external lead.
3. Net weight: 9.5 grams (approx).

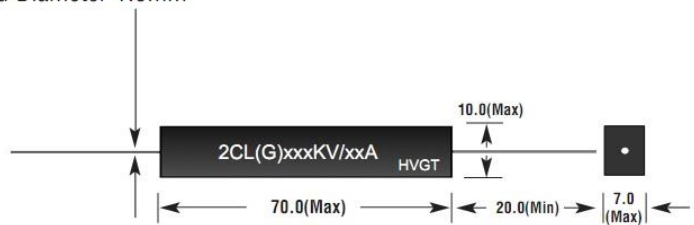
SHAPE DISPLAY:



SIZE: (Unit:mm) HVGT NAME: HVS-071070

HVS-071070 Series

Lead Diameter 1.0mm



Unit:mm

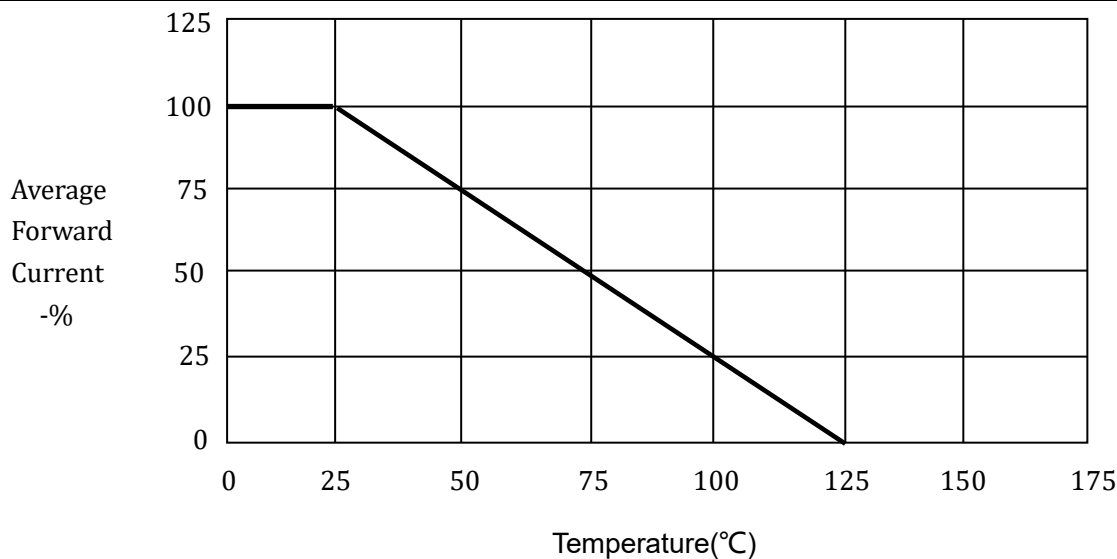
MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	120	kV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$T_A=25^{\circ}C$	144	kV
Average Forward Current Maximum	I_{FAVM}	$T_A=25^{\circ}C$	100	mA
		$T_{OIL}=55^{\circ}C$	100	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		125	$^{\circ}C$
Allowable Operation Case Temperature	T_c		-40~+125	$^{\circ}C$
Storage Temperature	T_{STG}		-40~+150	$^{\circ}C$

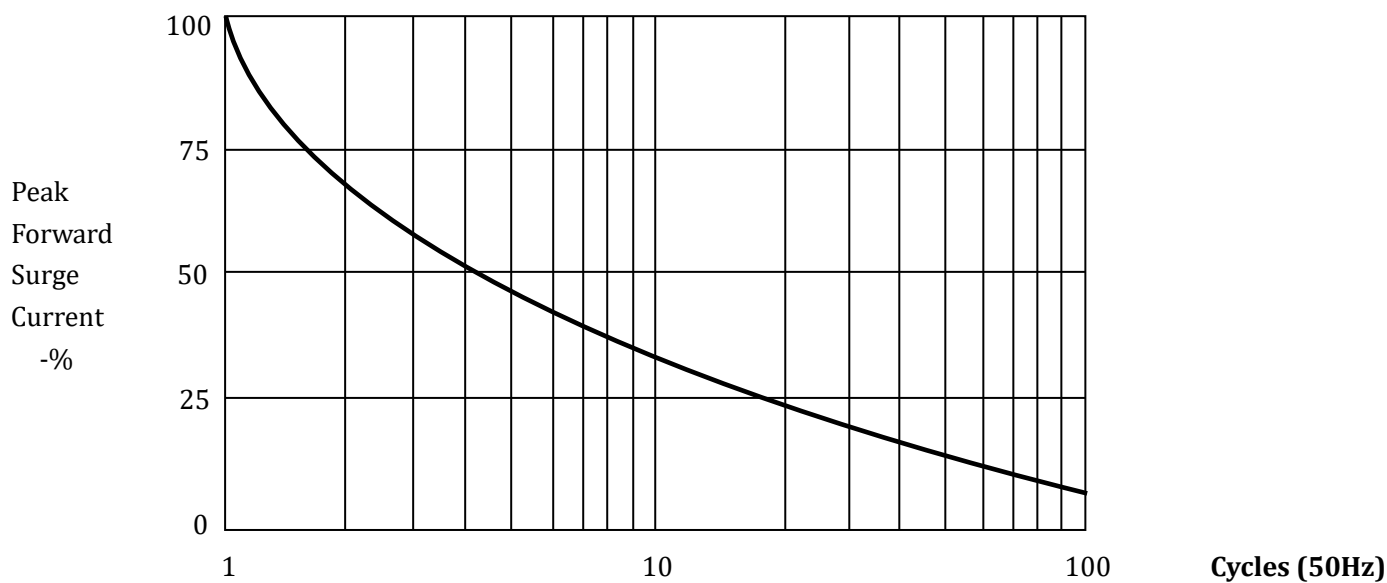
ELECTRICAL CHARACTERISTICS: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at I_{FAVM}	132	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	5.0	μA
	I_{R2}	at $100^{\circ}C$; at V_{RRM}	50	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	--	nS
Junction Capacitance	C_j	at $25^{\circ}C$; $V_R=0V$; $f=1MHz$	--	pF

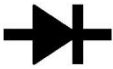
Forward Current Derating Curves



Non-Repetitive Surge Current



MARKING:

Type	Code	Cathode Mark
AW001L121D	AW001L121D HVGT	

PART NUMBER NOTE:

Type	Chip	I _{F(AV)}	Connecting end	V _{RRM}	T _{RR}
A	W	001	L	121	D
Assembly Series	Wafer Chip	0.1A	L=Lead S=Screw Holes	120kV	(U)75ns (G)100ns (D) Standard Recovery Time