YG005S201D 0.5A 200kV --nS

High Voltage Silicon Rectifier Assembly

INTRODUCE:

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

FEATURES:

1. High reliability design.
2. GPP chip.
3. High current . low forward voltage
4. Conform to RoHS and SGS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

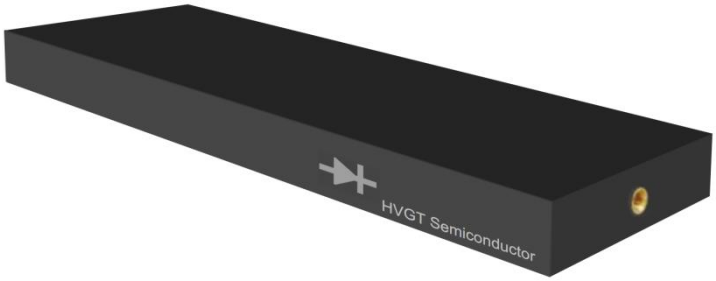
APPLICATIONS:

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

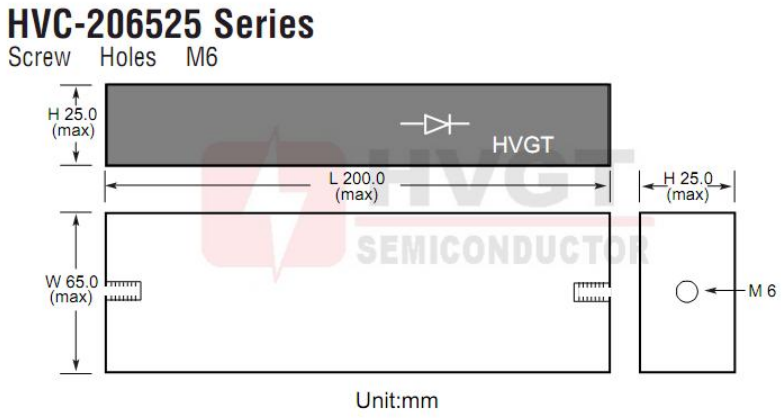
MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: screw holes.
3. Net weight: 520 grams (approx).

SHAPE DISPLAY:



SIZE: (Unit:mm) **HVGT NAME: HVC-206525**



MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Renerse Voltage	V_{RRM}	T_A=25°C	200	kV
Non-Repetitive Peak Renerse Voltage	V_{RSM}	T_A=25°C	240	kV
Average Forward Current Maximum	I_{FAVM}	T_A=40°C; 50Hz Half-Sine Wave; Resistance load	0.5	A
Non-Repetitive Forward Surge Current	I_{FSM}	T_A=25°C; 50Hz Half-Sine Wave; 8.3mS	30	A
Junction Temperature	T_J		150	°C
Allowable Operation Case Temperature	Tc		-40~+150	°C
Storage Temperature	T_{STG}		-55~+175	°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}	220	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	--	nS
Junction Capacitance	C_J	at 25°C; V_R=0V; f=1MHz	--	pF

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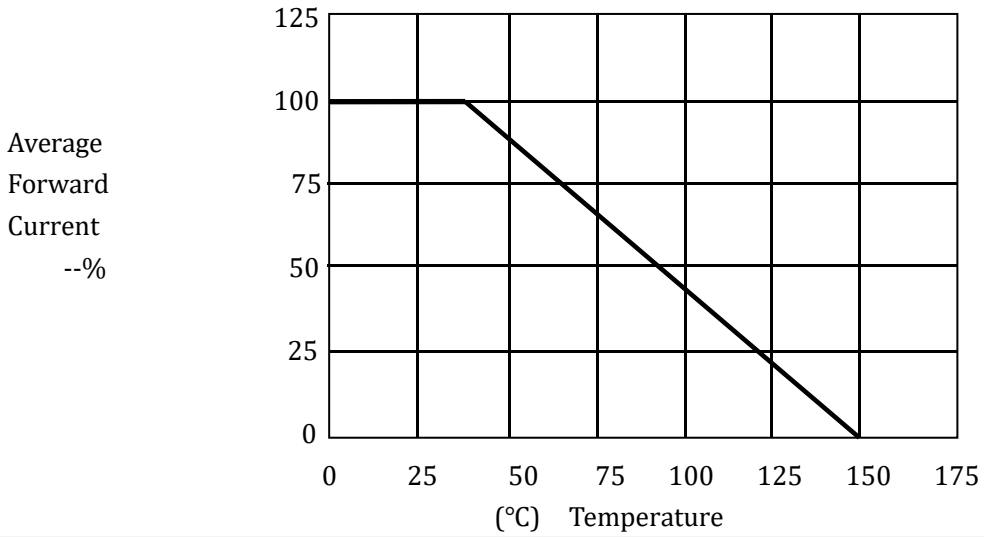
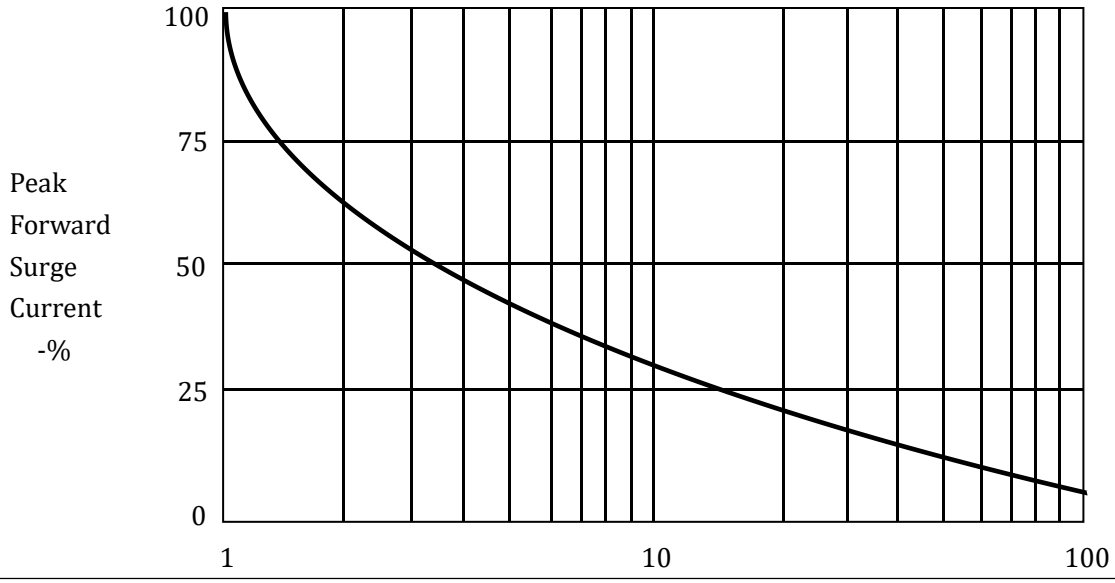
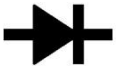
Forward Current Derating Curve



Non-Repetitive Surge Current



MARKING:

Type	Code	Cathode Mark
YG005S201D	YG005S201D HVGT	

PART NUMBER NOTE:

Type	Chip	$I_{F(AV)}$	Connecting end	V_{RRM}	T_{RR}
Y	**G**	**005**	**S**	**201**	**D**
Assembly Y Series	GPP Chip	0.5A	L=Lead S=Screw Holes	200kV	(U)75ns (G)100ns (D) Standard Recovery Time