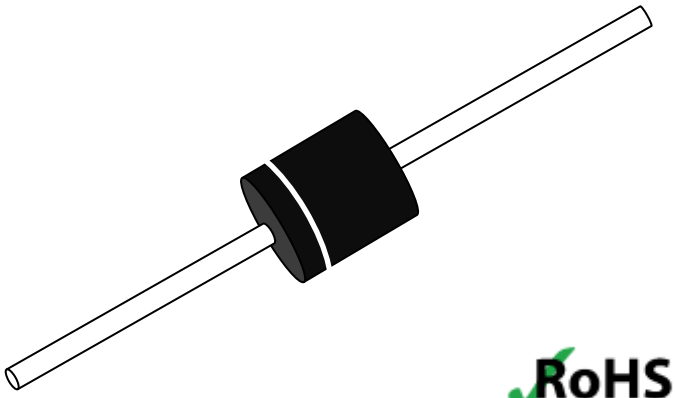
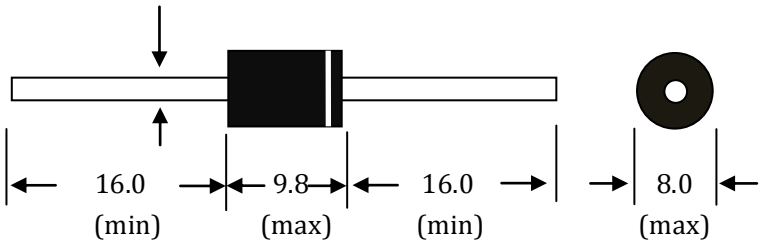
GH3A-08K 2.0A 8.0kV 75nS

High Current Fast-Recovery High Voltage Silicon Rectifier Diode

Introduce:	**Reference Shape:**
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:	
Avalanche characteristic. High current, low forward voltage. High frequency, Fast recovery. Conform to RoHS and SGS. Epoxy resin molded in vacuumHave anticorrosion in the surface.	

Applications:	**HVGT Name:**	**Unit: (mm)**
High pressure industrial detection. Voltage doubling circuit. High voltage rectifier. X-ray power supply.	DO-810 Lead Diameter 2.0±0.05	
Mechanical Data:		
Case: epoxy resin molding. Terminal: welding axis. Net weight: 2.35 grams (approx).		

Maximum Ratings And Characteristics: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Renerse Voltage	V_{RRM}	T_A=25°C	8.0	kV
Non-Repetitive Peak Renerse Voltage	V_{RSM}	T_A=25°C	9.6	kV
Average Forward Current Maximum	I_{FAVM}	T_A=55°C	2.0	A
		*T_L=55°C	3.0	A
Non-Repetitive Forward Surge Current	I_{FSM}	T_A=25°C; 60Hz Half-Sine Wave; 8.3mS	120	A
Junction Temperature	T_J		150	°C
Allowable Operation Case Temperature	Tc		-55~+150	°C
Storage Temperature	T_{STG}		-55~+175	°C

*Temperature measured at lead egress; lead length = 10mm.

Electrical Characteristics: T_A=25°C (Unless Otherwise Specified)

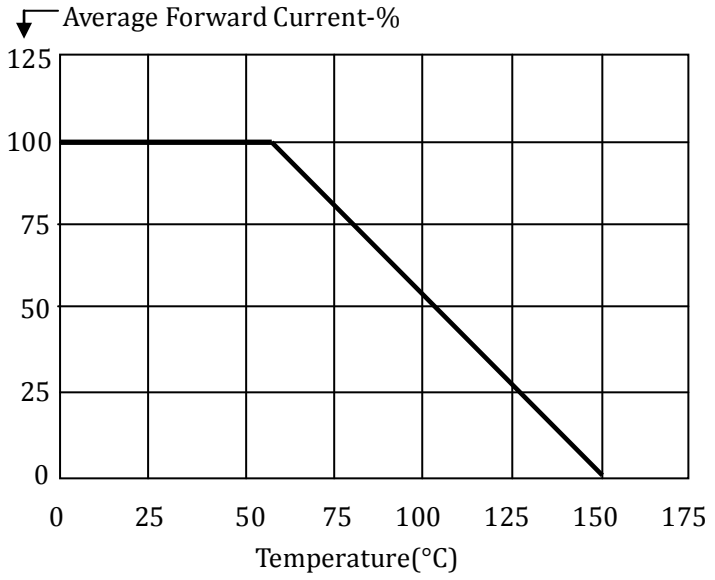
Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at 25°C; at I_{FAVM}	10.5	V
Maximum Reverse Current	I_{R1}	at 25°C; at V_{RRM}	2.0	uA
	I_{R2}	at 100°C; at V_{RRM}	20	uA
Maximum Reverse Recovery Time	T_{RR}	I_F=0.5A; I_R=1.0A; I_{RR}=0.25A	75	nS
Junction Capacitance	C_J	at 25°C; V_R=0V; f=1MHz	30	pF

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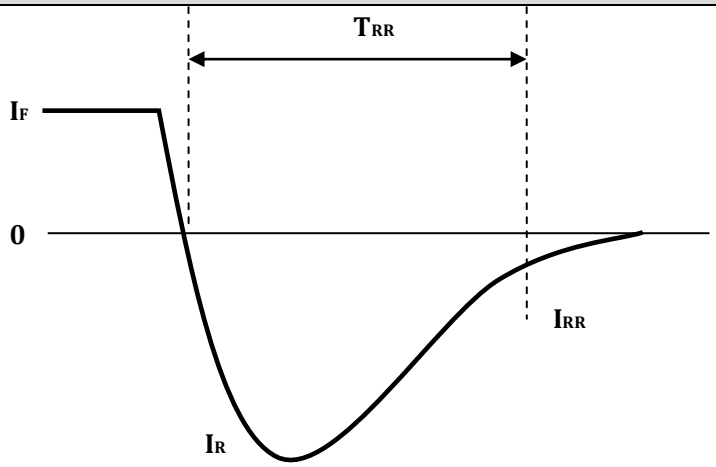
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High Current Fast-Recovery High Voltage Silicon Rectifier Diode

Forward Current Derating Curve



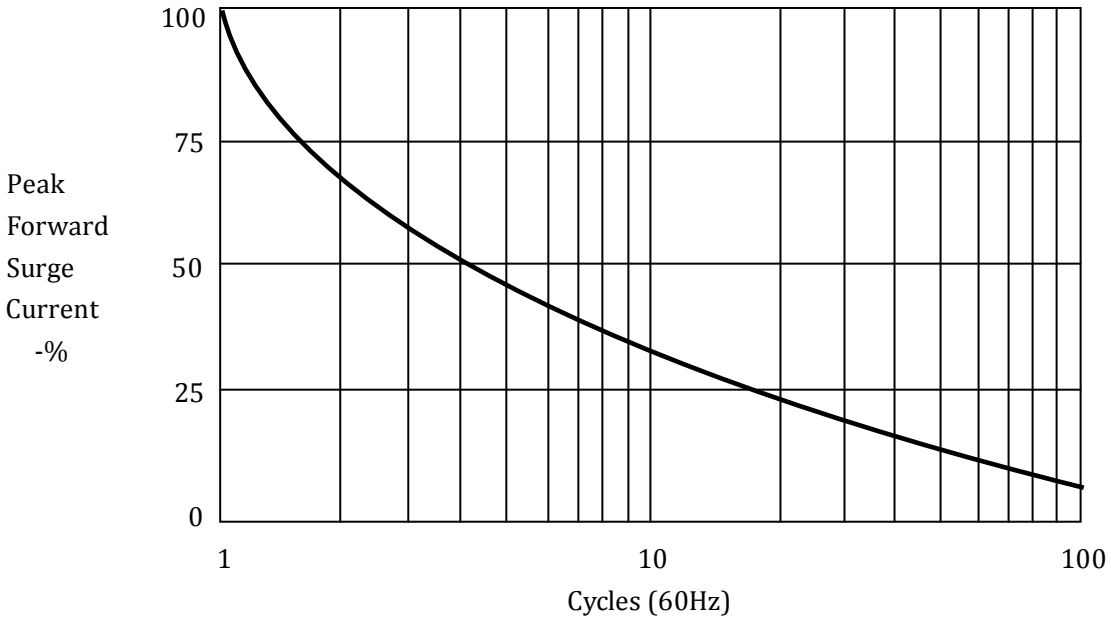
Reverse Recovery Measurement Waveform



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
	GH3A-08K	HVGT GH3A-08K	|

Packaging Standard		
Bulk Packaging	Label part munber nothing "TR"	Package standard download link:
--	--	http://www.hvgtsemi.com/newsv_746.html

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