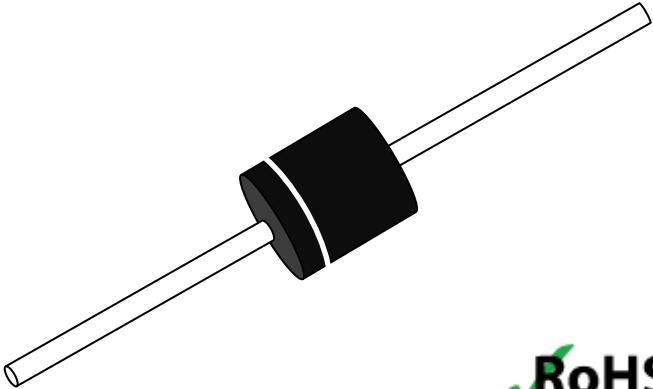
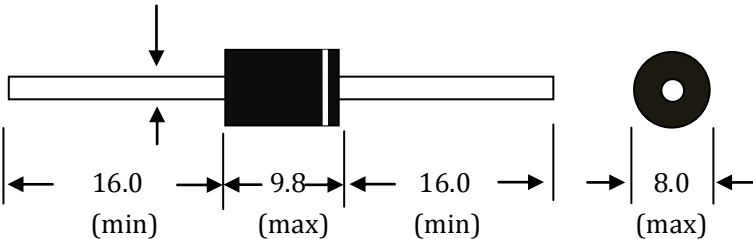


<b>Introduce:</b>	<b>Reference Shape:</b>
HVGT high voltage silicon rectifier diodes is made of high quality glass passivated chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers.	
<b>Features:</b>	
Avalanche characteristic. High current, low forward voltage. High frequency, Fast recovery. Conform to RoHS and SGS. Epoxy resin molded in vacuumHave anticorrosion in the surface.	



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

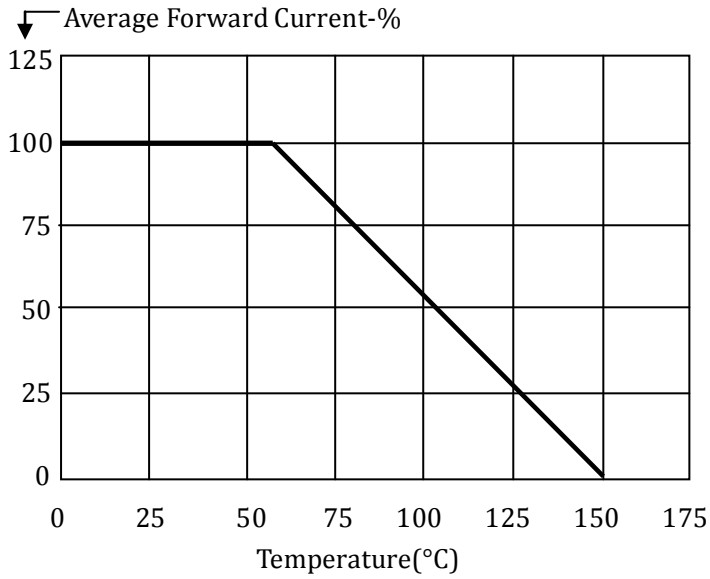
**Maximum Ratings And Characteristics: (Absolute Maximum Ratings)**

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	$T_A=25^{\circ}C$	5.0	kV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$T_A=25^{\circ}C$	6.0	kV
Average Forward Current Maximum	$I_{FAVM}$	$T_A=55^{\circ}C$	3.0	A
		$T_{OIL}=55^{\circ}C$	4.5	A
Non-Repetitive Forward Surge Current	$I_{FSM}$	$T_A=25^{\circ}C$ ; 60Hz Half-Sine Wave; 8.3ms	60	A
Junction Temperature	$T_j$		150	$^{\circ}C$
Allowable Operation Case Temperature	$T_c$		-40~+150	$^{\circ}C$
Storage Temperature	$T_{STG}$		-40~+150	$^{\circ}C$

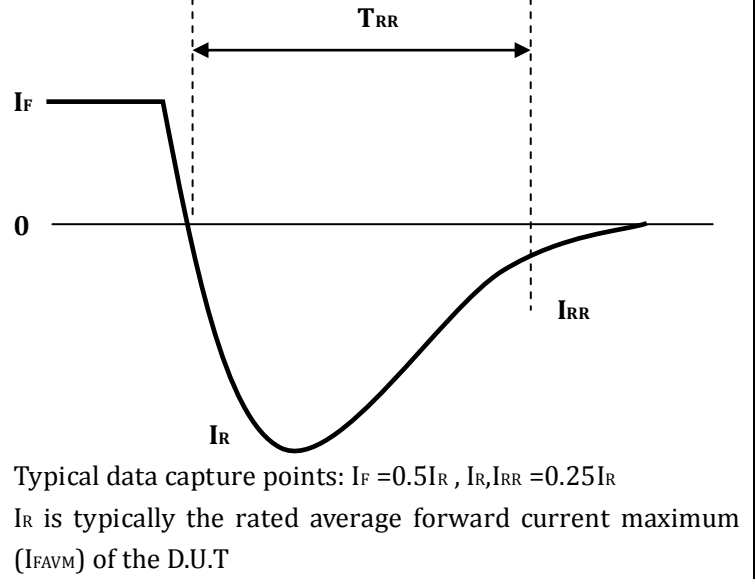
**Electrical Characteristics:  $T_A=25^{\circ}C$  (Unless Otherwise Specified)**

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	$V_{FM}$	at $25^{\circ}C$ ; at $I_{FAVM}$	8.0	V
Maximum Reverse Current	$I_{R1}$	at $25^{\circ}C$ ; at $V_{RRM}$	2.0	$\mu A$
	$I_{R2}$	at $100^{\circ}C$ ; at $V_{RRM}$	20	$\mu A$
Maximum Reverse Recovery Time	$T_{RR}$	$I_F=200mA$ ; $I_R=400mA$ ; $I_{RR}=100mA$	80	nS
Junction Capacitance	$C_j$	at $25^{\circ}C$ ; $V_R=0V$ ; $f=1MHz$	--	pF

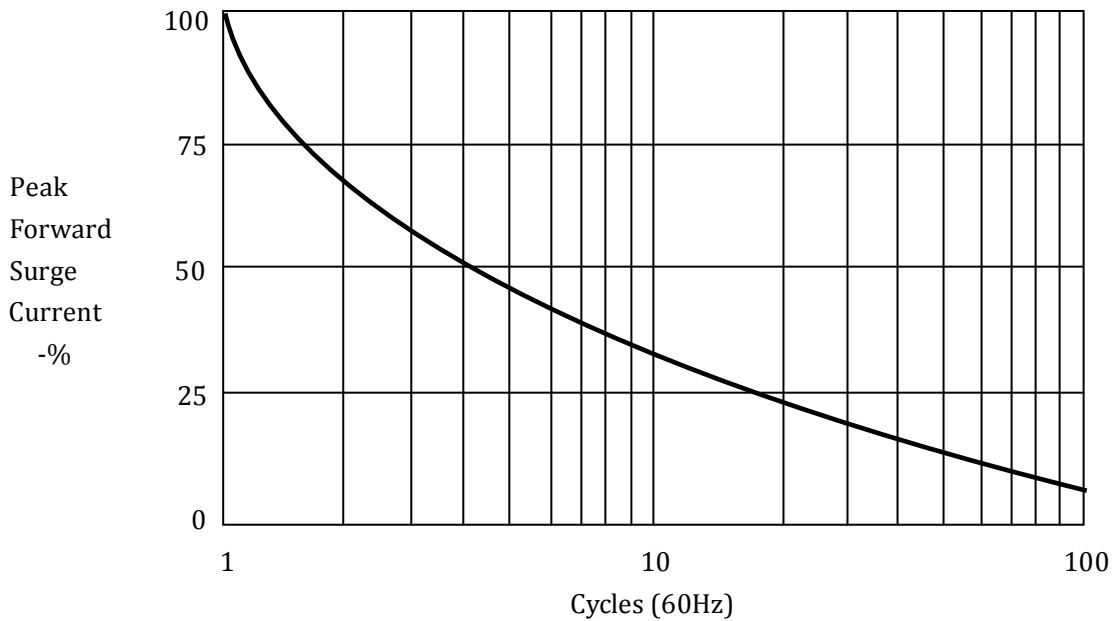
**Forward Current Derating Curve**



**Reverse Recovery Measurement Waveform**



**Non-Repetitive Surge Current**



	Type	Code	Cathode Mark
<b>Marking</b>	GH3A-05K	HVGT GH3A-05K	

**Packaging Standard**

Bulk Packaging	Label part number nothing "TR"	Package standard download link:
--	--	<a href="http://www.hvgtsemi.com/news/746.html">http://www.hvgtsemi.com/news/746.html</a>