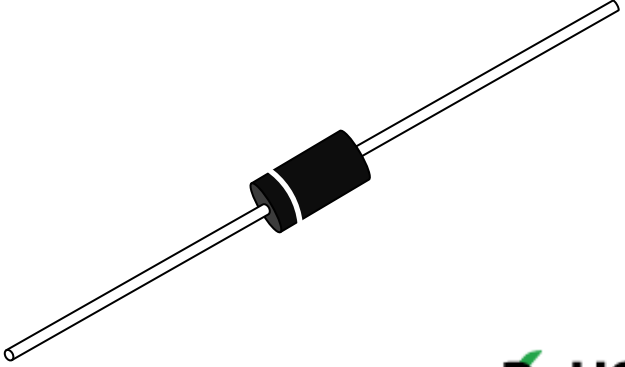
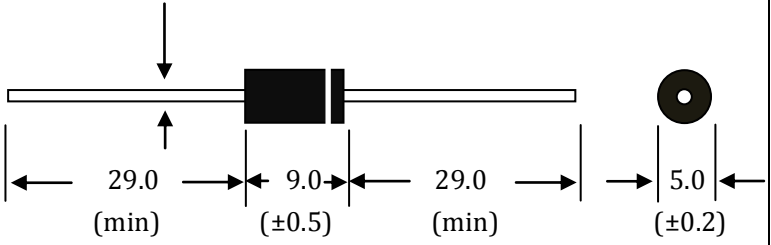


Introduce:	Reference Shape:
HVGT high voltage silicon rectifier diodes is made of high quality glass passivated chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers.	
Features:	
High reliability design. GPP chip. High frequency, super fast recovery. Conform to RoHS and SGS. Epoxy resin molded in vacuumHave anticorrosion in the surface.	



Applications:	HVGT Name:	Unit: (mm)
High voltage multiplier circuit. X-ray power supply. General purpose high voltage rectifier. Other.	DO-590 Lead Diameter 1.28±0.03	
Mechanical Data:		
Case: epoxy resin molding. Terminal: welding axis. Net weight: 2.1 grams (approx).		

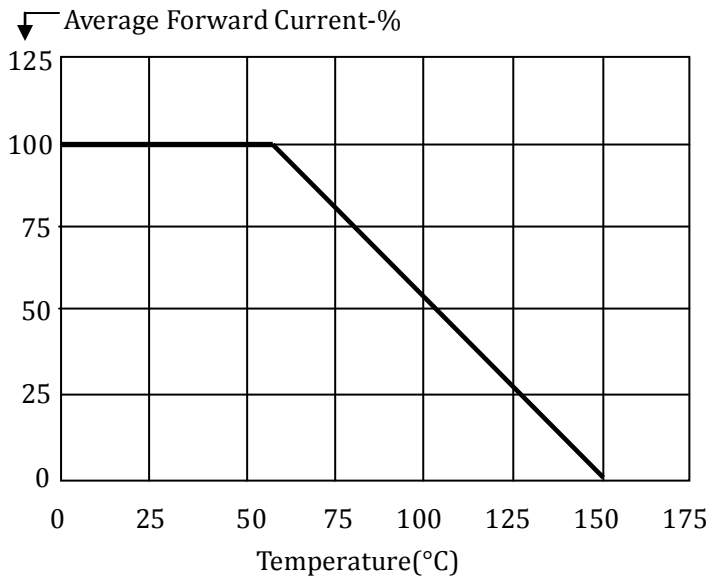
Maximum Ratings And Characteristics: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$T_A=25^{\circ}C$	5.0	kV
Average Forward Current Maximum	I_{FAVM}	$T_L=55^{\circ}C$ (L=0.375")	500	mA
		$T_L=100^{\circ}C$ (L=0.375")	250	mA
Non-Repetitive Forward Surge Current	I_{FSM}	$T_A=25^{\circ}C$; 60Hz Half-Sine Wave; 8.3mS	20	A
Repetitive Forward Surge Current	I_{FRM}	$T_A=25^{\circ}C$	4.0	A
Junction Temperature	T_J		150	$^{\circ}C$
Allowable Operation Case Temperature	T_C		-55~+150	$^{\circ}C$
Storage Temperature	T_{STG}		-55~+175	$^{\circ}C$

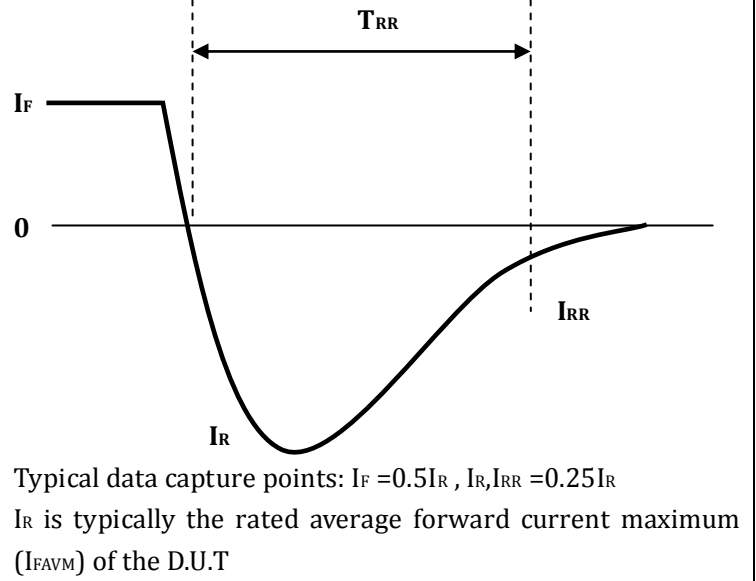
Electrical Characteristics: $T_A=25^{\circ}C$ (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at $25^{\circ}C$; at I_{FAVM}	12	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$; at V_{RRM}	1.0	μA
	I_{R2}	at $100^{\circ}C$; at V_{RRM}	25	μA
Maximum Reverse Recovery Time	T_{RR}	at $25^{\circ}C$; $I_F=0.5I_R$; $I_R=I_{FAVM}$; $I_{RR}=0.25I_R$	30	nS
Junction Capacitance	C_J	at $25^{\circ}C$; $V_R=50VDC$; $f=1KHz$	16	pF

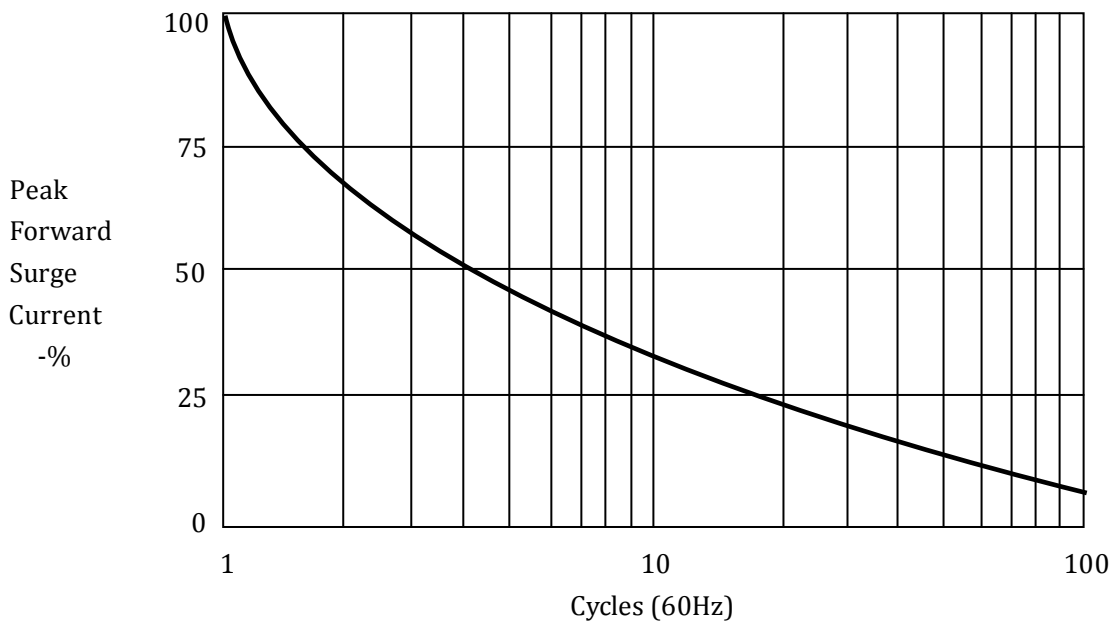
Forward Current Derating Curve



Reverse Recovery Measurement Waveform



Non-Repetitive Surge Current



Marking	Type	Code	Cathode Mark
	1N6837	1N6837 HVGT	

Packaging Standard

Bulk Packaging	Label part number nothing "TR"	Package standard download link:
Tape Reel		http://www.hvgtsemi.com/newsview_494.html