2CL77

5.0mA 20kV 100nS--High Voltage Silicon Rectifier Diode

INTRODUCE:

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:

1. High reliability design.
2. High voltage design.
3. High frequency .
4. Conform to RoHS.
5. Epoxy resin molded in vacuumHave anticorrosion in the surface.

APPLICATIONS:

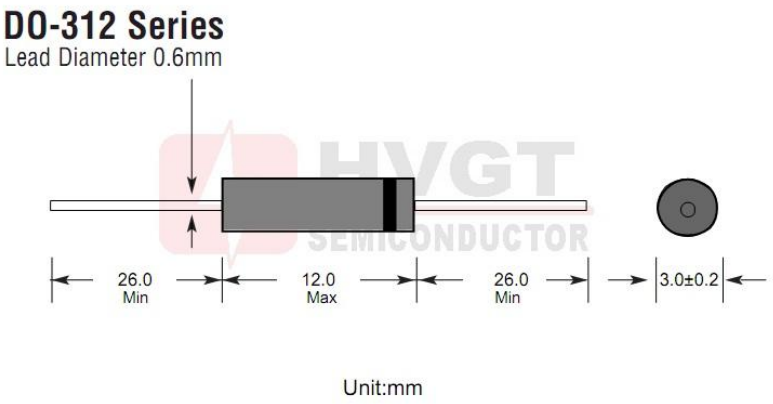
1. High voltage multiplier circuit
2. Electrostatic generator circuit .
3. General purpose high voltage rectifier.
4. Other.

MECHANICAL DATA:

1. Case: epoxy resin molding.
2. Terminal: welding axis.
3. Net weight: 0.30 grams (approx).

SHAPE DISPLAY:

SIZE: (Unit:mm)： **HVGT NAME: DO-312**



MAXIMUM RATINGS AND CHARACTERISTICS: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Renerse Voltage	V_{RRM}	T_A=25°C	20	kV
Average Forward Current Maximum	I_{FAVM}	T_A=25°C	5.0	mA
		T_{OIL}=--°C	--	mA
Suege Current	I_{FSM}	T_A=25°C; Half-Sine Wave; 8.3mS	0.5	A
Junction Temperature	T_J		-40~+125	°C
Allowable Operation Case Temperature	Tc		125	°C
Storage Temperature	T_{STG}		-40~+125	°C

ELECTRICAL CHARACTERISTICS: T_A=25°C (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_F	at 25°C; at $I_{F(AV)}$	45	V
Maximum Reverse Current	I_R1	at 25°C; at V_{RRM}	2.0	uA
	I_R2	at 100°C; at V_{RRM}	5.0	uA
Maximum Reverse Recovery Time	T_{RR}	at 25°C; I_F=0.5I_R; I_R=I_{FAVM}; I_{RR}=0.25I_R	100	nS
Junction Capacitance	C_J	at 25°C; V_R=0V; f=1MHz	1.0	pF

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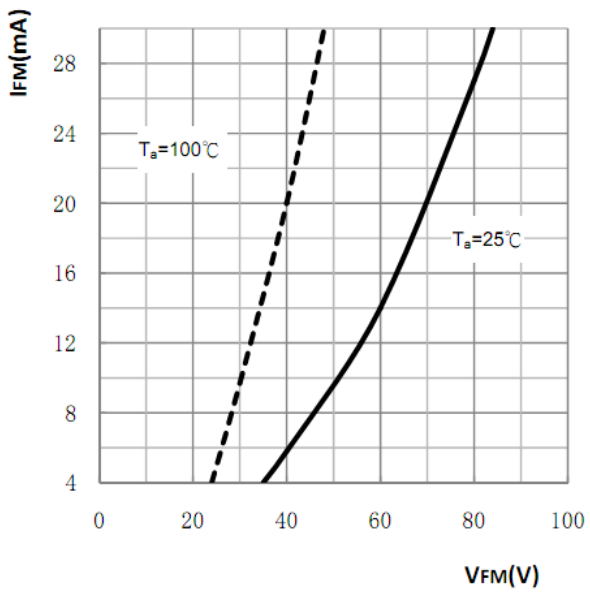
Fig1	Fig2
Forward Characteristics	Reverse Characteristics



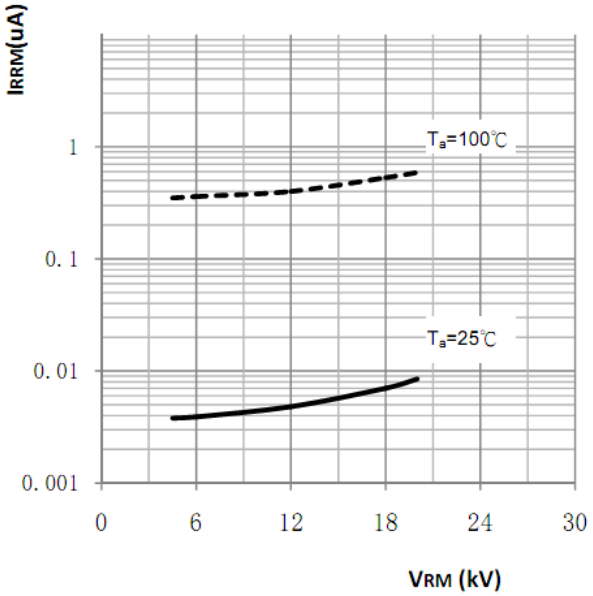
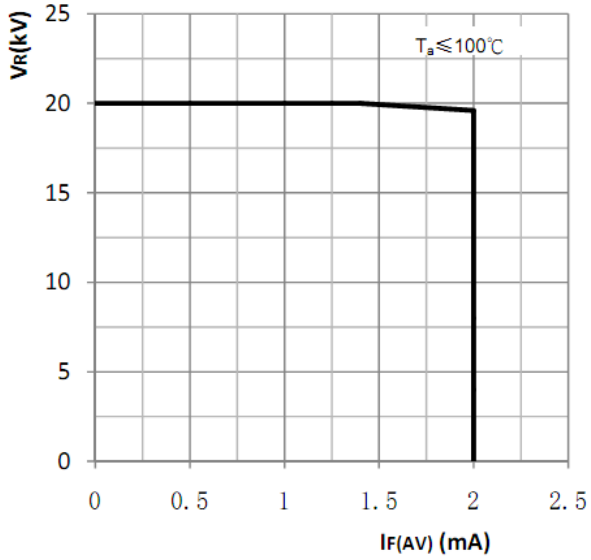
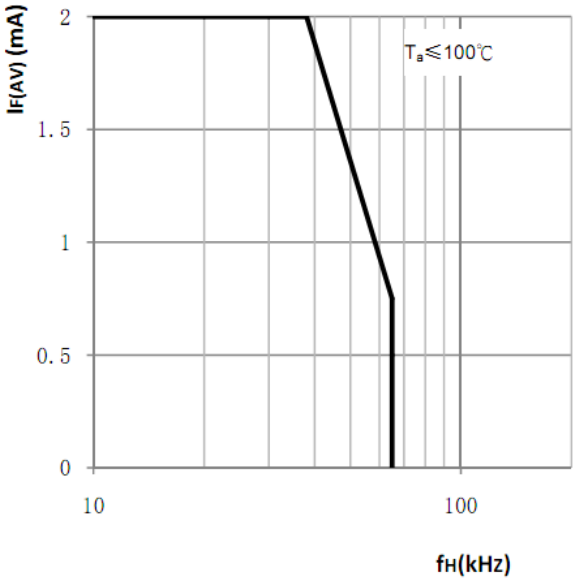


Fig3	Fig4
VR-IF(AV) Curve	IF(AV)-fH Curve





Marking	Type	Code	Cathode Mark
	2CL77		