HV-T73

5mA 12kV 80nS-HIGH VOLTAGE DIODE

High reliability resin molded type high voltage diode in small size package which is sealed a multilayed mesa type silicon chip by epoxy resin.

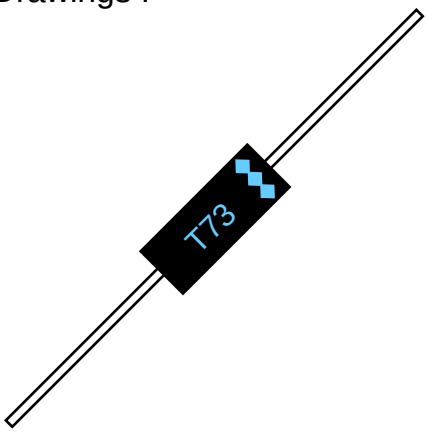
Features

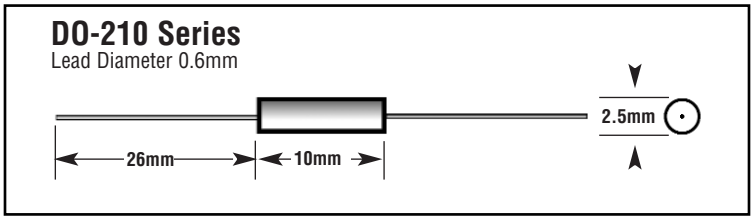
- High speed switching
- Epoxy resin molded in vacuum, Have anticorrosion in the surface
- High surge resisitivity for CRT discharge
- High reliability design
- Avalanche characteristic

Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power
- General purpose high voltage rectifier, Voltage multiplier assembly.

Outline Drawings :





Maximum Ratings and Characteristics

● Absolute Maximum Ratings

Items	Symbols	Condition	HV-T73	Units
Repetitive Peak Renerse Voltage	V_{RRM}	Ta=25°C,	12	kV
Average Output Current	I_O	Ta=25°C,Resistive Load	5.0	mA
Suege Current	I_{FSM}	Ta=25°C,8.3 ms	0.5	A peak
Junction Temperature	T_j		125	°C
Allowable Operation Case Temperature	Tc		125	°C
Storage Temperature	T_{stg}		-40 to +125	°C

● Electrical Characteristics (Ta=25°C Unless otherwise specified)

Items	Symbols	Conditions	HV-T73	Units
Maximum Forward Voltage Drop	V_F	at 25°C,$I_F = I_{F(AV)}$	45	V
Maximum Reverse Current	IR1	at 25°C,$V_R = V_{RRM}$	2.0	uA
	IR2	at 100°C,$V_R = V_{RRM}$	5.0	uA
Maximum Reverse Recovery Time	Trr	at 25°C; I_F =2mA; I_R =4mA; Irr =1mA;	80	nS
Junction Capacitance	Cj	at 25°C;V_R=0V,f=1MHz	1.0	pF

■ Typical characteristics:

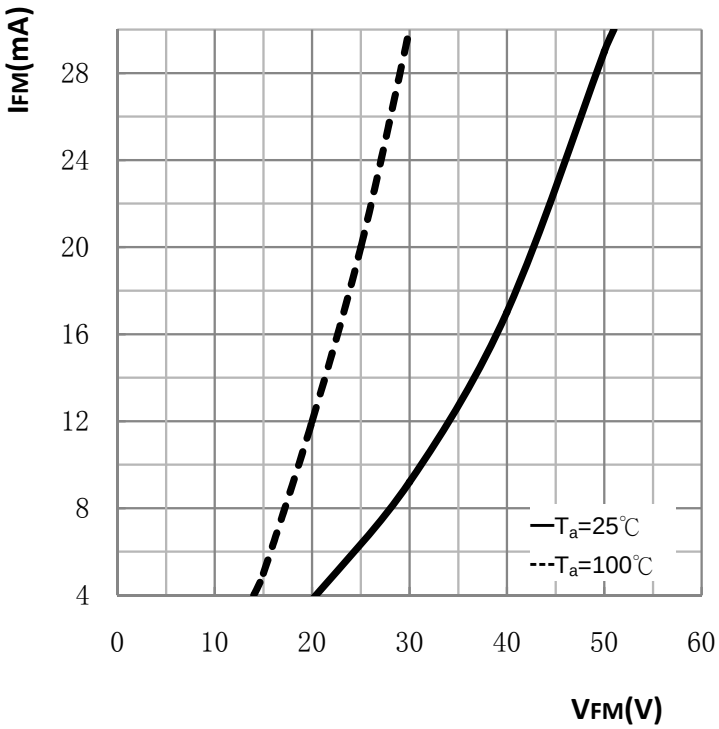


Figure 1. Forward characteristics

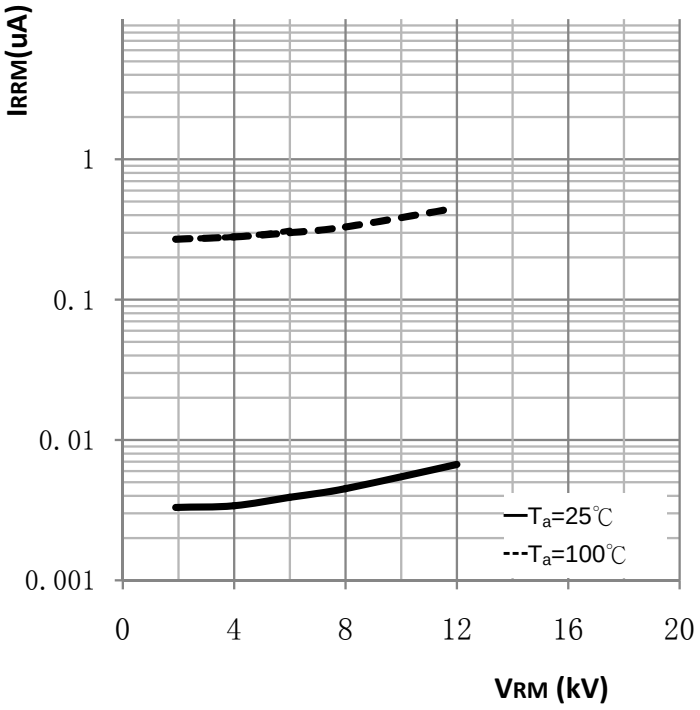


Figure 2. Reverse characteristics

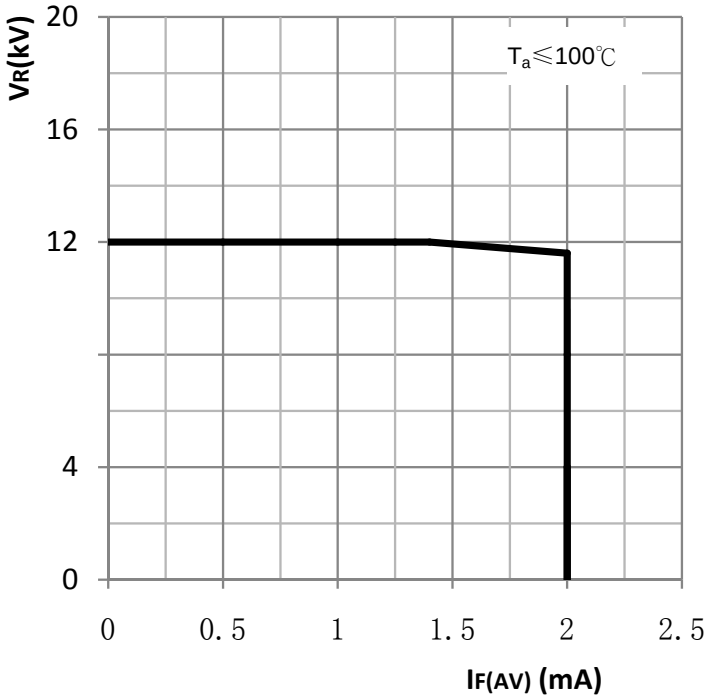


Figure 3. VR-IF(AV) Curve

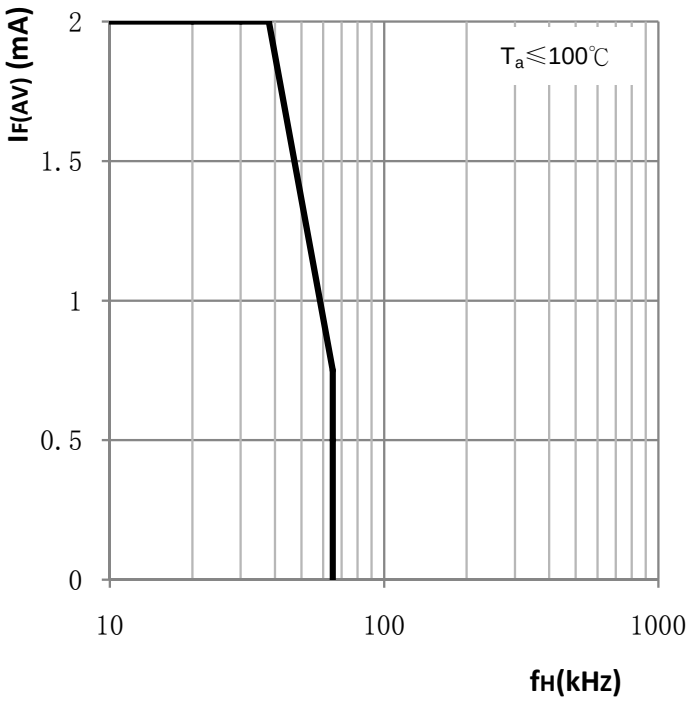


Figure 4. IF(AV)-fH Curve