

20kV 30mA HIGH VOLTAGE DIODES

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

Features

- High speed switching
- Low VF
- High surge resistivity for CRT discharge
- High reliability design
- Ultra small package

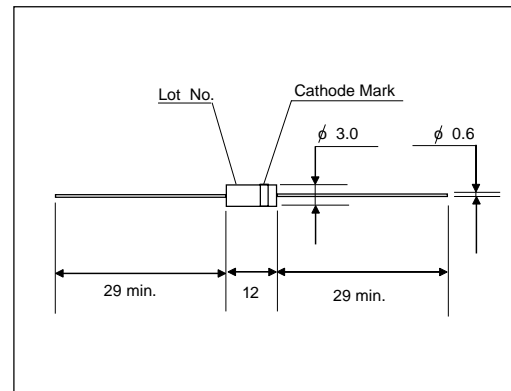
Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Outline Drawings : mm



Cathode Mark

Type	Mark
HVRT200	

Items	Symbols	Condition	HVRT200	Units
Repetitive Peak Reverse Voltage	V_{RRM}		20	kV
Average Output Current	I_o	Ta=25°C, Resistive Load	30	mA
Surge Current	I_{FSM}	10mS Sine-half wave peak value	3.0	A _{peak}
Junction Temperature	T _J		125	°C
Allowable Operation Case Temperature	T _c		100	°C
Storage Temperature	T _{stg}		-40 to +125	°C

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

Items	Symbols	Conditions	HVRT200	Units
Maximum Forward Voltage Drop	V_F	at 25°C, $I_F = I_{F(AV)}$	35	V
Maximum Reverse Current	IR1	at 25°C, $V_R = 20kV$	2.0	μA
	IR2	at 100°C, $V_R = 20kV$	20	μA
Maximum Reverse Recovery Time	T _{rr}	at 25°C, $I_F = 2mA, I_R = 4mA$	100	nS
Junction Capacitance	C _j	at 25°C, $V_R = 0V, f = 1MHz$	1.0	pF