

## 10kV 500mA HIGH VOLTAGE DIODE

HV500F10 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

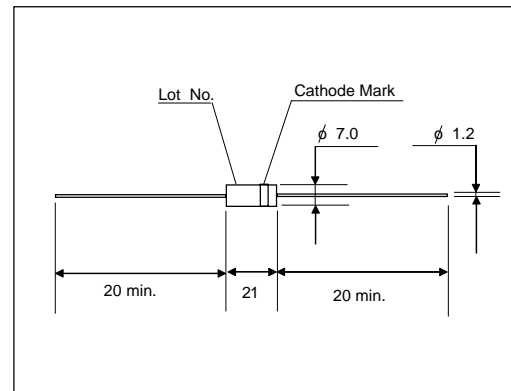
### Applications

- 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
HV500F10	

Items	Symbols	Condition	HV500F10	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$		10	kV
Average Output Current	$I_o$	Ta=25°C, Resistive Load	500	mA
Surge Current	$I_{FSM}$		25	A <sub>peak</sub>
Junction Temperature	T <sub>J</sub>		155	°C
Allowable Operation Case Temperature	T <sub>c</sub>		125	°C
Storage Temperature	T <sub>stg</sub>		-40 to +155	°C

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

Items	Symbols	Conditions	HV500F10	Units
Maximum Forward Voltage Drop	$V_F$	at 25°C, $I_F=I_{F(AV)}$	16	V
Maximum Reverse Current	IR1	at 25°C, $V_R=V_{RRM}$	5.0	μA
	IR2	at 100°C, $V_R=V_{RRM}$	50	μA
Maximum Reverse Recovery Time	T <sub>rr</sub>	at 25°C	100	nS
Junction Capacitance	C <sub>j</sub>	at 25°C, $V_R=0V, f=1MHz$	15	pF