

## 500mA 10kV HIGH VOLTAGE DIODES

Finds use in applications such as Monitors, Static electricity dust collectors, Laser power supplies, ect..

### Features

- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

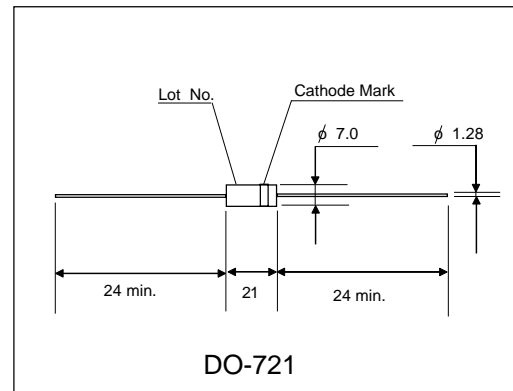
### Applications

- 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
ESJC50F10	

Items	Symbols	Condition	ESJC50F10	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$		10	kV
Average Output Current	$I_o$	$T_a=25^{\circ}C$ , Resistive Load	500	mA
Surge Current	$I_{FSM}$		30	A <sub>peak</sub>
Junction Temperature	$T_j$		120	$^{\circ}C$
Allowable Operation Case Temperature	$T_c$		120	$^{\circ}C$
Storage Temperature	$T_{stg}$		-40 to +125	$^{\circ}C$

### Electrical Characteristics ( $T_a=25^{\circ}C$ Unless otherwise specified)

Items	Symbols	Conditions	ESJC50F10	Units
Maximum Forward Voltage Drop	$V_F$	at $25^{\circ}C$ , $I_F = I_{F(AV)}$	16	V
Maximum Reverse Current	$I_{R1}$	at $25^{\circ}C$ , $V_R = V_{RRM}$	5.0	$\mu A$
	$I_{R2}$	at $100^{\circ}C$ , $V_R = V_{RRM}$	50	$\mu A$
Maximum Reverse Recovery Time	$T_{rr}$	at $25^{\circ}C$	100	nS
Junction Capacitance	$C_j$	at $25^{\circ}C$ , $V_R=0V$ , $f=1MHz$	--	pF