

**VOLTAGE RANGE: 12 KV**  
**CURRENT: 5.0 mA**

### Features

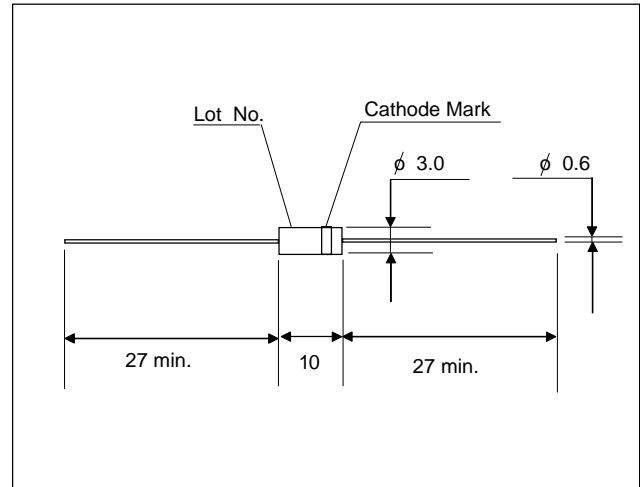
- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

### Applications

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



### Outline Drawings : mm



### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbols	ESJA59-12A	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	12	kV
Non-Repetitive peak forward Current 50Hz Sine-half wave peak value	$I_{FSM}$	0.5	A
Average forward Current 50Hz Sine Wave	$I_{AV}$	5.0	mA
Maximum Forward Voltage Drop at $25^\circ\text{C}, I_F=10\text{mA}$	$V_F$	36	V
Maximum Reverse Current at $25^\circ\text{C}, V_R = 12\text{kV}$	$I_{R1}$	2.0	$\mu\text{A}$
Maximum Reverse Recovery Time at $100^\circ\text{C}, V_R = 12\text{kV}$	$I_{R2}$	5.0	$\mu\text{A}$
at $25^\circ\text{C} I_F=2\text{mA}, I_R=4\text{mA}$	$T_{rr}$	0.08	nS
Junction Capacitance at $25^\circ\text{C}, V_R=0\text{V}, f=1\text{MHz}$	$C_j$	1.0	pF
Junction Temperature	$T_j$	120	$^\circ\text{C}$
Allowable Operation Case Temperature	$T_c$	100	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +120	$^\circ\text{C}$