

**VOLTAGE RANGE: 10KV**  
**CURRENT: 5.0 mA**

### Features

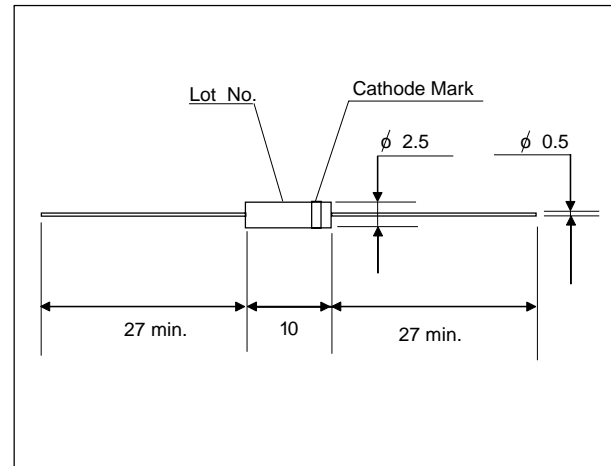
- High speed switching
- Low VF
- High surge resistivity for CRT discharge
- High reliability design
- Ultra small package

### Applications

- Rectification for CRT display monitor high voltage power supply (FBT:Flyback Transformer)



### Outline Drawings



### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Items	Symbols	ESJA09-10	Units
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	10	kV
Average Output Current T <sub>a</sub> =25°C, Resistive Load	I <sub>o</sub>	5	mA
Surge Current 10mS Sine-half wave peak value	I <sub>FSM</sub>	0.5	A <sub>peak</sub>
Maximum Forward Voltage Drop at 25°C, I <sub>F</sub> =10mA	V <sub>F</sub>	35	V
Maximum Reverse Current at 25°C, V <sub>R</sub> =10kV	I <sub>R1</sub>	2	μA
at 100°C, V <sub>R</sub> =10kV	I <sub>R2</sub>	5	μA
Maximum Reverse Recovery Time at 25°C, I <sub>F</sub> =2mA, I <sub>R</sub> =4mA	t <sub>rr</sub>	0.05	μs
Junction Capacitance at 25°C, V <sub>R</sub> =0V, f=1MHz	C <sub>j</sub>	1	pF
Junction Temperature	T <sub>j</sub>	120	°C
Allowable Operation Case Temperature	T <sub>c</sub>	100	°C
Storage Temperature	T <sub>stg</sub>	-40 to +120	°C