



# ESJA19-12

## HIGH VOLTAGE RECTIFIER DIODES

**VOLTAGE RANGE: 12KV**  
**CURRENT: 5mA**

### Features

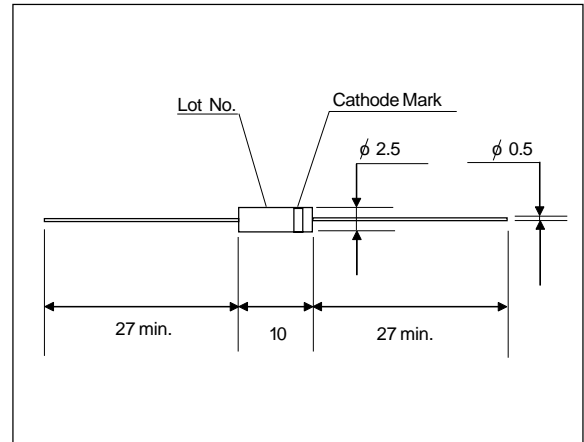
- Ultra high speed switching
- Low VF
- High surge resisitivity for CRT discharge
- High reliability design
- Ultra small pakage

### 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

Characteristic	Symbols	ESJA19 -12	Units
Repetitive Peak Renerse Voltage	V <sub>RRM</sub>	12	kV
Average Output Current T <sub>a</sub> =25°C, Resistive Load	I <sub>o</sub>	5.0	mA
Suege Current	I <sub>FSM</sub>	0.5	A
Maximum Forward Voltage Drop at 25°C, I <sub>F</sub> =10mA	V <sub>F</sub>	42	V
Maximum Reverse Current	V <sub>RRM</sub>	2.0	uA
Maximum Reverse Recovery Time T <sub>a</sub> =25°C, I <sub>F</sub> =2mA, I <sub>R</sub> =4mA	T <sub>rr</sub>	0.045	μs
Junction Capacitance at 25°C, V <sub>R</sub> =0V, f=1MHz	C <sub>j</sub>	1.0	pF
Junction Temperature	T <sub>j</sub>	125	°C
Allowable Operation Case Temperature	T <sub>c</sub>	125	°C
Storage Temperature	T <sub>stg</sub>	-40 to +125	°C