



# ESJA18-08

## HIGH VOLTAGE RECTIFIER DIODES

**VOLTAGE RANGE: 8KV**  
**CURRENT: 5.0 mA**

### Features

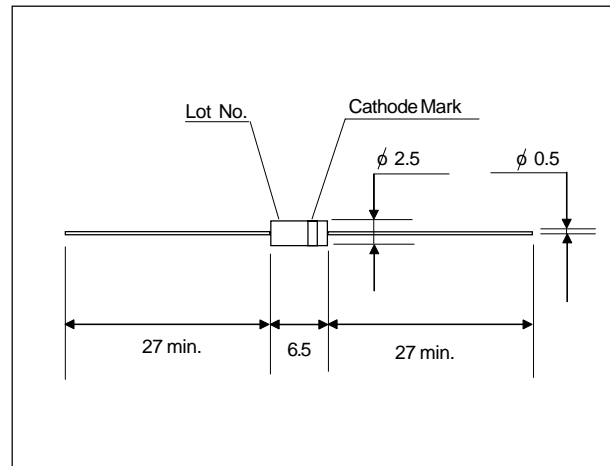
- Ultra high speed switching
- Low VF
- High surge resistivity for CRT discharge
- High reliability design
- Ultra small package

### Applications

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



### Outline Drawings



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

Characteristic	Symbols	ESJA18-08	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	8	kV
Average Output Current	$I_o$	5	mA
Surge Current $T_a=25^\circ\text{C}$ , Resistive Load	$I_{FSM}$	0.5	A
Maximum Forward Voltage Drop $I_F=10\text{mA}$	$V_F$	28	V
Maximum Reverse Current $V_R=V_{RRM}$	$I_R$	2	$\mu\text{A}$
Maximum Reverse Recovery Time $T_a=25^\circ\text{C}$ , $I_F=2\text{mA}$ , $I_R=4\text{mA}$	$t_{rr}$	0.045	$\mu\text{s}$
Junction Capacitance $T_a=25^\circ\text{C}$ , $V_R=0\text{V}$ , $f=1\text{MHz}$	$C_j$	2	pF
Junction Temperature 10mS Sine-half wave peak value	$T_j$	120	$^\circ\text{C}$
Allowable Operation Case Temperature	$T_c$	100	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +120	$^\circ\text{C}$