

# ESJA08

(8kV/5mA)

## HIGH VOLTAGE DIODE

**ESJA08** is high reliability resin molded type high voltage diode in small size package which is sealed (a multilayered mesa type silicon chip) by epoxy resin.

### 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)

### Maximum Ratings and Characteristics

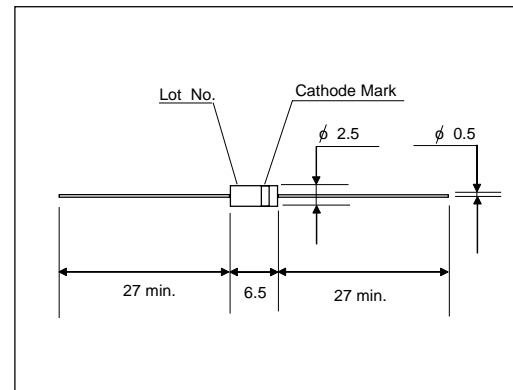
- Absolute Maximum Ratings

Items	Symbols	Condition	ESJA08	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$		8	kV
Average Output Current	$I_o$		5	mA
Surge Current	$I_{FSM}$	$T_a=25^{\circ}\text{C}$ , Resistive Load	0.5	A
Junction Temperature	$T_j$	10mS Sine-half wave peak value	120	$^{\circ}\text{C}$
Allowable Operation Case Temperature	$T_c$		100	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$		-40 to +120	$^{\circ}\text{C}$

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

Items	Symbols	Conditions	ESJA08	Units
Maximum Forward Voltage Drop	$V_F$	$I_F=10\text{mA}$	28	V
Maximum Reverse Current	$I_R$	$V_R=V_{RRM}$	2	$\mu\text{A}$
Maximum Reverse Recovery Time	$t_{rr}$	$T_a=25^{\circ}\text{C}$ , $I_F=2\text{mA}$ , $I_R=4\text{mA}$	0.05	$\mu\text{s}$
Junction Capacitance	$C_j$	$T_a=25^{\circ}\text{C}$ , $V_R=0\text{V}$ , $f=1\text{MHz}$	2	pF

### Outline Drawings



### Cathode Mark

Type	Mark
ESJA08-08	

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## Characteristics

