

# ESJA09-10

(10kV/5mA)

## HIGH VOLTAGE DIODE

**ESJA09** 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

- 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)

### Maximum Ratings and Characteristics

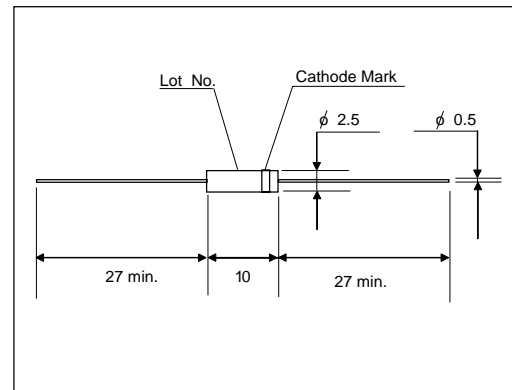
- Absolute Maximum Ratings

Items	Symbols	Condition	ESJA09-10	Units
Repetitive Peak Renerse Voltage	$V_{RRM}$		10	kV
Average Output Current	$I_o$	Ta=25°C,Resistive Load	5	mA
Suege Current	$I_{FSM}$	10mS Sine-half wave peak value	0.5	$A_{peak}$
Junction Temperature	$T_j$		120	°C
Allowable Operation Case Temperature	$T_c$		100	°C
Storage Temperature	$T_{stg}$		-40 to +120	°C

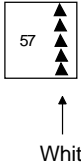
- Electrical Characteristics (Ta=25°C Unless otherwise specified )

Items	Symbols	Conditions	ESJA09-10	Units
Maximum Forward Voltage Drop	$V_F$	at 25°C, $I_F=10mA$	35	V
Maximum Reverse Current	$I_{R1}$	at 25°C, $V_R=10kV$	2	$\mu A$
	$I_{R2}$	at 100°C, $V_R=10kV$	5	$\mu A$
Maximum Reverse Recovery Time	$t_{rr}$	at 25°C, $I_F=2mA$ , $I_R=4mA$	0.05	$\mu s$
Junction Capacitance	$C_j$	at 25°C, $V_R=0V$ , $f=1MHz$	1	pF

### Outline Drawings



### Cathode Mark

Type	Mark
ESJA09-10	

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## Characteristics

