

ESJA09

(10kV,12kV/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

- 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

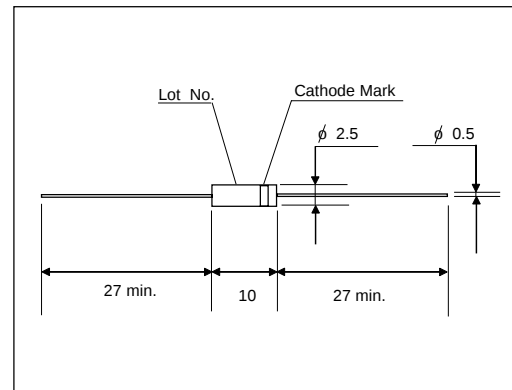
- Absolute Maximum Ratings

Items	Symbols	Condition	ESJA09		Units
			-10	-12	
Repetitive Peak Reverse Voltage	V_{RRM}		10	12	kV
Average Output Current	I_o		5		mA
Surge Current	I_{FSM}	Ta=25°C, Resistive Load	0.5		A
Junction Temperature	T_j	10mS Sine-half wave peak value	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		Units
			-10	-12	
Maximum Forward Voltage Drop	V_F	$I_F=10mA$		42	V
Maximum Reverse Current	I_R	$V_R=V_{RRM}$	2		μA
Maximum Reverse Recovery Time	t_{rr}	Ta=25°C, $I_F=2mA$, $I_R=4mA$	0.05		μs
Junction Capacitance	C_j	Ta=25°C, $V_R=0V$, $f=1MHz$	1		pF

Outline Drawings



Cathode Mark

Type	Mark
ESJA09-10	
ESJA09-12	

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Characteristics

