

ESJA09-12

(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

- 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

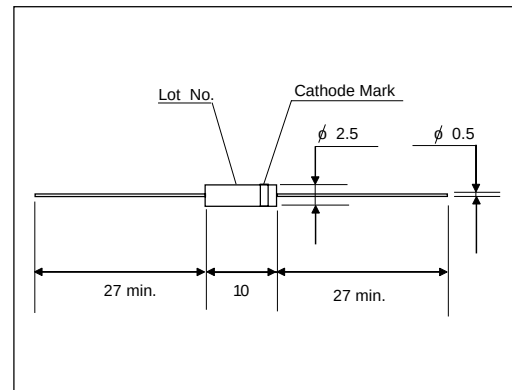
- Absolute Maximum Ratings

Items	Symbols	Condition	ESJA09-12	Units
Repetitive Peak Renerse Voltage	V_{RRM}		12	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	ESJA09-12	Units
Maximum Forward Voltage Drop	V_F	at 25°C, $I_F=10mA$	42	V
Maximum Reverse Current	I_{R1}	at 25°C, $V_R=12kV$	2	μA
	I_{R2}	at 100°C, $V_R=12kV$	5	μA
Maximum Reverse Recovery Time	t_{rr}	at 25°C, $I_F=2mA$, $I_R=4mA$	0.05	μs
Junction Capacitance	C_j	at 25°C, $V_R=0V$, $f=1MHz$	1	pF

Outline Drawings : mm



Cathode Mark

Type	Mark
ESJA09-12	 White

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Characteristics

