

ESJA19

(10kV,12kV/5mA)

HIGH VOLTAGE DIODE

ESJA19 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

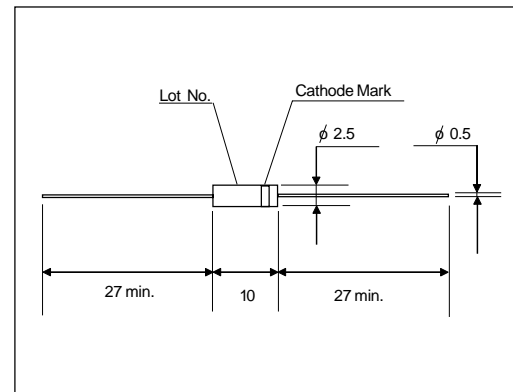
- Absolute Maximum Ratings

Items	Symbols	Condition	ESJA19		Units
			-10	-12	
Repetitive Peak Reverse Voltage	V_{RRM}		10	12	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	ESJA19		Units
			-10	-12	
Maximum Forward Voltage Drop	V_F	$I_F=10\text{mA}$	36	42	V
Maximum Reverse Current	I_R	$V_R=V_{RRM}$	2		μA
Maximum Reverse Recovery Time	t_{rr}	$T_a=25^{\circ}\text{C}$, $I_F=2\text{mA}$, $I_R=4\text{mA}$	0.045		μs
Junction Capacitance	C_j	$T_a=25^{\circ}\text{C}$, $V_R=0\text{V}$, $f=1\text{MHz}$	1		pF

Outline Drawings



Cathode Mark

Type	Mark
ESJA19-10	
ESJA19-12	

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Characteristics

