

ESJC13

(9kV/450mA,12kV/350mA)

HIGH VOLTAGE DIODE

ESJC13 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

- Low V_F
- High Surge proof resistivity
- High reliability .

Applications

- Rectification for Microwave oven high voltage power supply

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

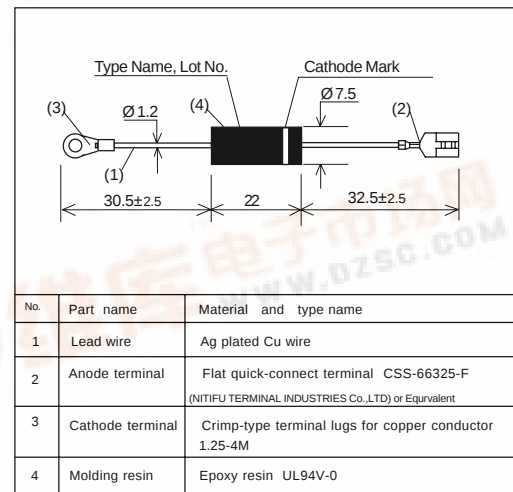
Items	Symbols	Conditions	ESJC13		Units
			-09B	-12B	
Repetitive Peak Reverse Voltage	V_{RRM}		9	12	kV
Average Forward Current	I_o	50HzSine half-wave average value. $T_a \leq 60^\circ C^*$	450	350	mA
Non-repetitive Peak Reverse Current	I_{RSM}	$W_p=1mS$.Rectangular-wave. One-shot. $T_a=25^\circ C$	100		mA
Non-repetitive Peak Forward Current	I_{FSM}	50HzSine half-wave peak value. One-shot. $T_a=25^\circ C$	30		A
Allowable Junction Temperature	T_j		130		$^\circ C$
Storage Temperature Range	T_g		-40 to +130		$^\circ C$

* Cooling Requirement: Cathode terminal is fastened to radiating fin
That size is more than 50mm×50mm×0.6mm Wind-cooled velocity is more than 0.5m/s.

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

Items	Symbols	Conditions	ESJC13		Units
			-09B	-12B	
Maximum Forward Voltage Drop	V_F	$I_F=350mA$	8	10	V
Maximum Reverse Current	I_R	$V_R=12kV$	5		μA
Minimum Avalanche Breakdown Voltage	V_Z	$I_Z=100\mu A$	9.5	12.5	kV

Outline Drawings

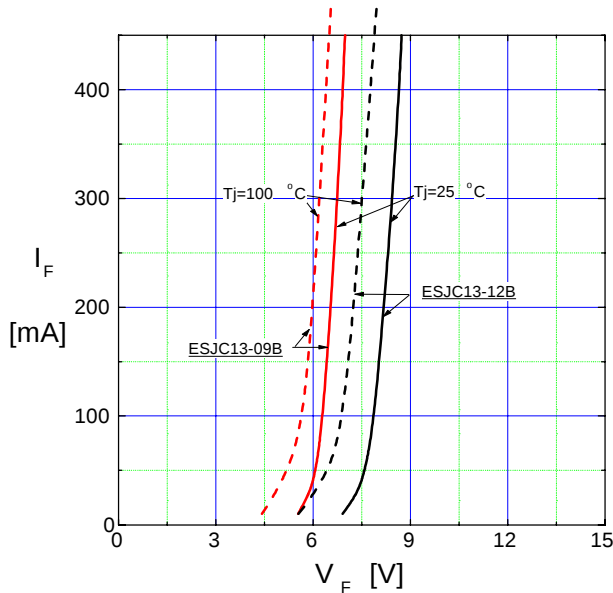


Cathode Mark

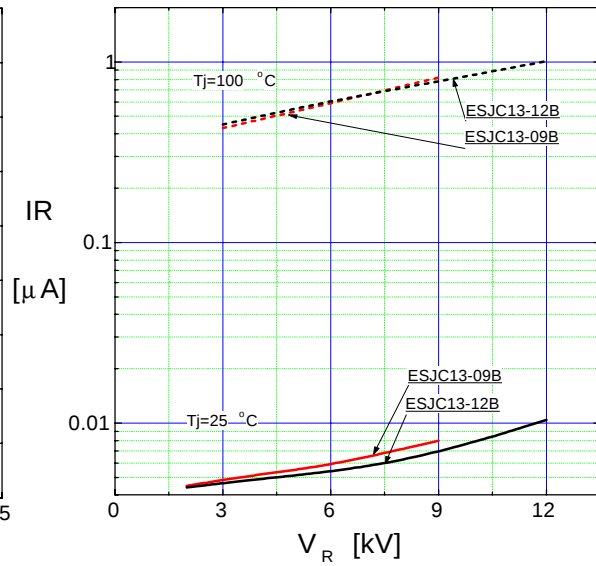
Type	Mark
ESJA13-09B	■ ■ ■ ■ ■ ■
ESJA13-12B	◆ ◆ ◆ ◆ ◆ ◆

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Characteristics



Forward Characteristics



Reverse Characteristics

