

# ESJA28

(2.2kV, 2.7kV/10mA)

## 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

- High reliability design.
- Ultra small package.
- High temperature resistivity

### Applications

- Distributor-less Ignition system of Coil Distributed Type for Automobile

### Maximum Ratings and Characteristics

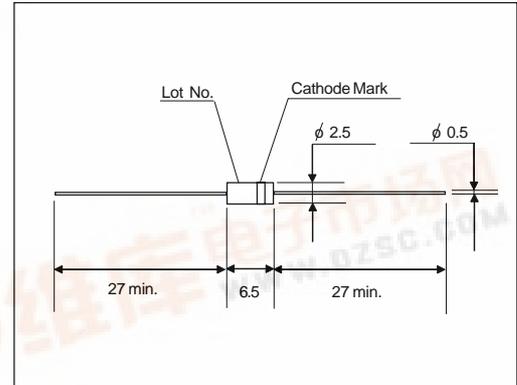
- Absolute Maximum Ratings

Items	Symbols	Condition	ESJA28		Units
			-02S	-03	
Repetitive Peak Reverse Voltage	$V_{RRM}$	$f=60\text{Hz}$	2.2	2.7	kV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	Ignition Pulse $f=150\text{Hz}, 1\text{minute}$	2.5	3.0	kV
Average Output Current	$I_o$	60 Hz Sine wave	10		mA
Surge Current	$I_{FSM}$	60 Hz Sine-half wave peak value	1.0		A
Operating Junction Temperature	$T_j$		150		$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$		-40 to +150		$^{\circ}\text{C}$

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

Items	Symbols	Conditions	ESJA28		Units
			-02S	-03	
Maximum Forward Voltage Drop	$V_F$	$I_F=10\text{mA}$	7	8.4	V
Maximum Reverse Current	$I_{R1}$	$V_R=2.2\text{kV}$	5		$\mu\text{A}$
Maximum Reverse Current	$I_{R2}$	$V_R=2.5\text{kV}$	10		$\mu\text{A}$
Minimum Avalanche Breakdown Voltage	$V_Z$	$I_Z=100\mu\text{A}$	2.7		kV

### Outline Drawings



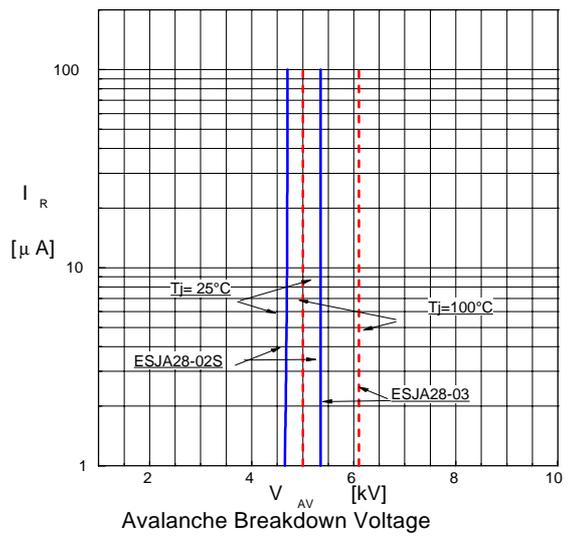
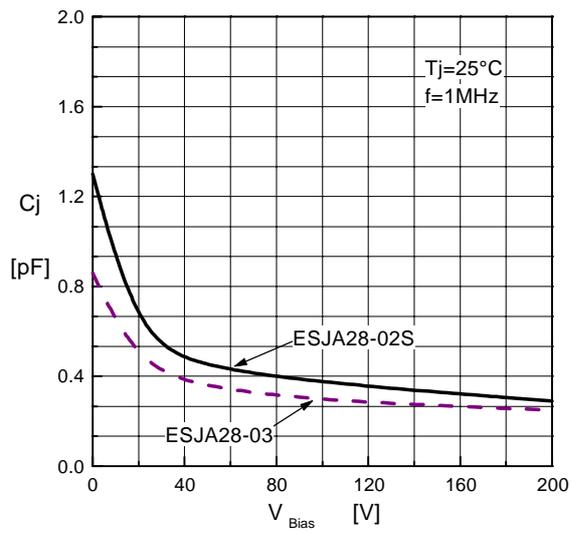
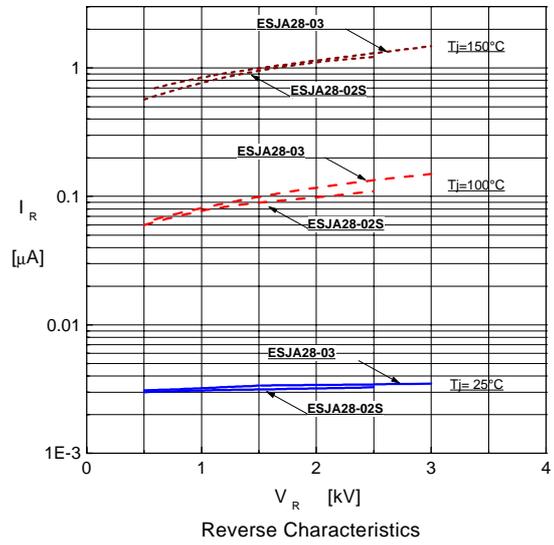
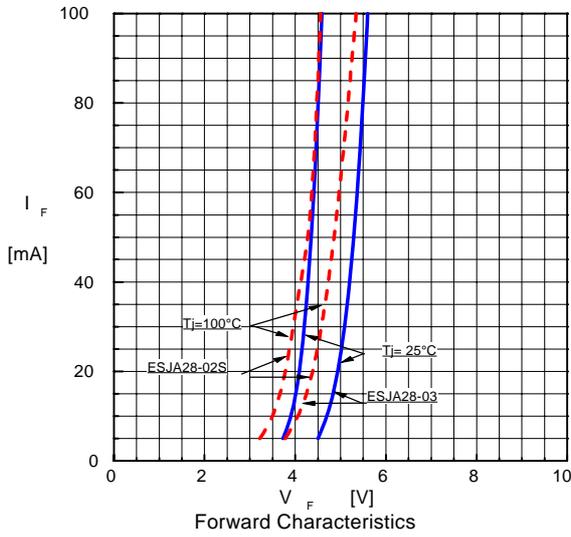
### Cathode Mark

Type	Mark
ESJA28-02S	
ESJA28-03	



# ESJA28(2.2kV,2.7kv/5mA)

## Characteristics



Junction Capacitance Characteristics

Avalanche Breakdown Voltage