

ESJC34-08

(8.0kV/350mA)

HIGH VOLTEGE DIODE

ESJC34 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 .
- High speed switching

Applications

- Rectification for inverter type Microwave oven high voltage power supply

Maximum Ratings and Characteristics

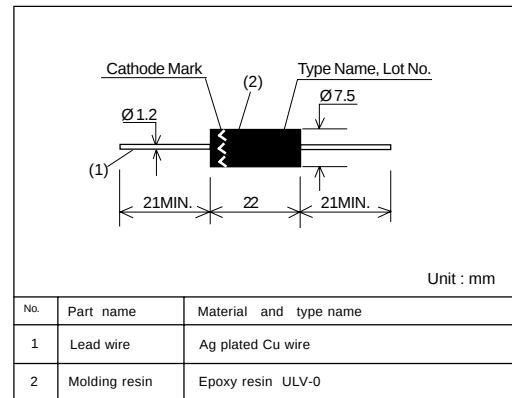
- Absolute Maximum Ratings

Items	Symbols	Conditions	ESJC34-08	Units
Repetitive Peak Reverse Voltage	V_{RRM}		8.0	kV
Average Forward Current	I_o	$T_I \leq 110^\circ\text{C}$	350	mA
Non-repetitive Peak Forward Current	I_{FSM}	$T_w=10\text{ms}$, Triangular-wave peak value. One-shot. $T_a=25^\circ\text{C}$	15	A
Non-repetitive Peak Reverse Current	I_{RSM}	$T_w=1\text{mS}$. Rectangular-wave. One-shot. $T_a=25^\circ\text{C}$	50	mA
Allowable Junction Temperature	T_j		120	$^\circ\text{C}$
Storage Temperature Range	T_{stg}		-30 to +130	$^\circ\text{C}$

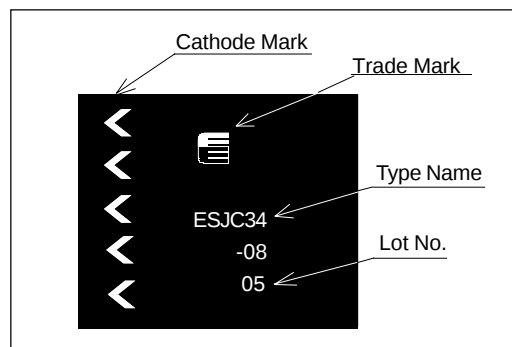
- Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	ESJC34-08	Units
Maximum Forward Voltage Drop	V_F	$I_F=350\text{mA}$	13.5	V
Maximum Reverse Current	I_R	$V_R=8.0\text{kV}$	10	μA
Minimum Reverse Recovery Time	t_{rr}	$I_F=100\text{mA}$, $I_R=100\text{mA}$ 90%Recovery	0.15	μs

Outline Drawings



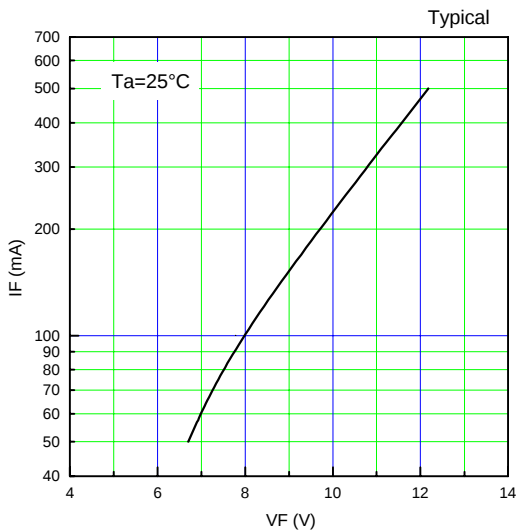
Cathode Mark, Type Name



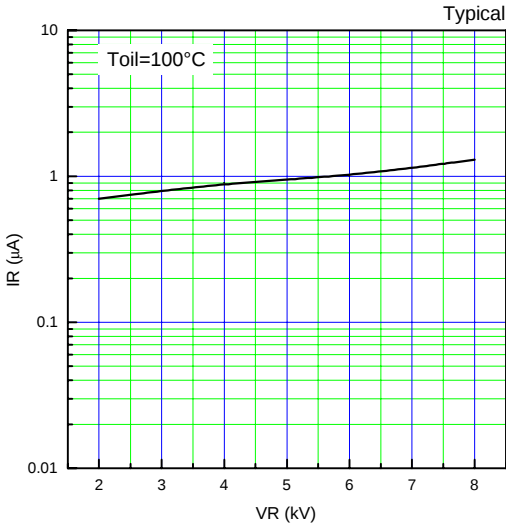
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Characteristics

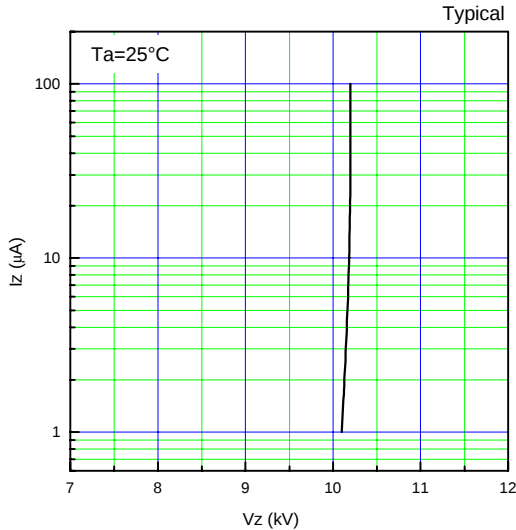
Forward characteistic[VF-IF]



Reverse characteristic[VR-IR]



Avalanche characteristic[Vz-Iz]



Reverse recovery time characteristic[Ta-trr]

