



ESJA59-14A

HIGH VOLTAGE RECTIFIER DIODES

VOLTAGE RANGE: 14 KV
CURRENT: 5.0 mA

Features

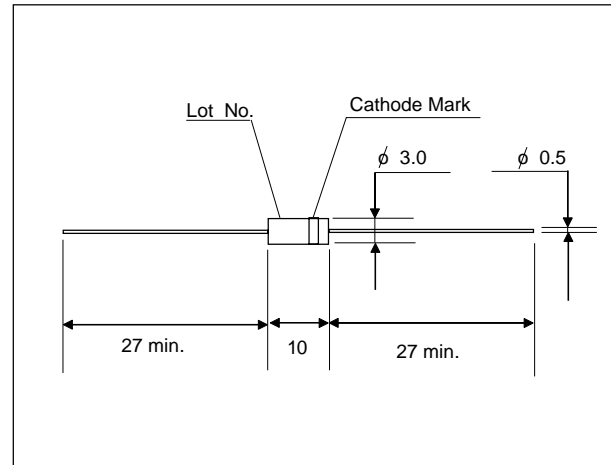
- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power



Outline Drawings : mm



Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbols	ESJA59-14A	Units
Repetitive Peak Reverse Voltage	V_{RRM}	14	kV
Non-Repetitive peak forward Current 50Hz Sine-half wave peak value	I_{FSM}	0.5	A
Average forward Current 50Hz Sine Wave	I_{AV}	5.0	mA
Maximum Forward Voltage Drop at $25^\circ\text{C}, I_F=10\text{mA}$	V_F	51	V
Maximum Reverse Current at $25^\circ\text{C}, V_R = 14\text{kV}$ at $100^\circ\text{C}, V_R = 14\text{kV}$	V_{RRM}	2.0	μA
		5.0	μA
Maximum Reverse Recovery Time at $25^\circ\text{C} I_F=2\text{mA}, I_R=4\text{mA}$	T_{rr}	0.08	nS
Junction Capacitance at $25^\circ\text{C}, V_R=0\text{V}, f=1\text{MHz}$	C_j	1.0	pF
Junction Temperature	T_j	120	$^\circ\text{C}$
Allowable Operation Case Temperature	T_C	100	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +120	$^\circ\text{C}$