



ESJA59-12A

PLASTIC FAST RECOVER HIGH VOLTAGE RECTIFIER

VOLTAGE RANGE: 12 KV
CURRENT: 5.0 mA

Features

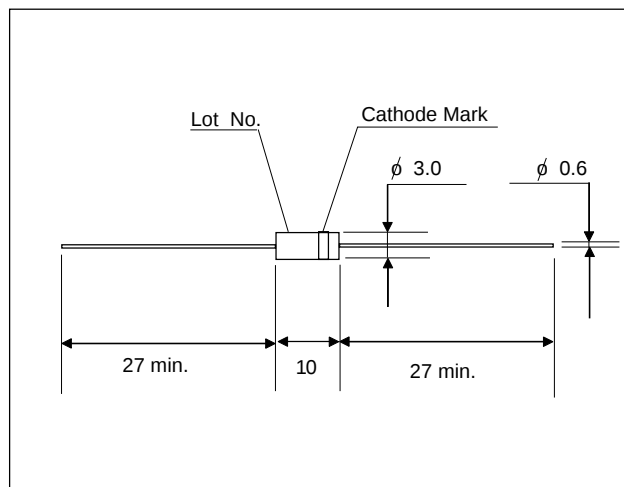
- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

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	ESJA59-12A	Units
Repetitive Peak Reverse Voltage	V_{RRM}	12	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°C , $I_F=10\text{mA}$	V_F	36	V
Maximum Reverse Current at 25°C , $V_R = 12\text{kV}$	I_{R1}	2.0	μA
Maximum Reverse Recovery Time at 100°C , $V_R=12\text{kV}$	I_{R2}	5.0	μA
at 25°C $I_F=2\text{mA}$, $I_R=4\text{mA}$	T_{rr}	0.08	nS
Junction Capacitance at 25°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	$^\circ\text{C}$