



ESJA54-06A

HIGH VOLTAGE RECTIFIER DIODES

VOLTAGE RANGE: 6.0KV
CURRENT: 5.0 mA

Features

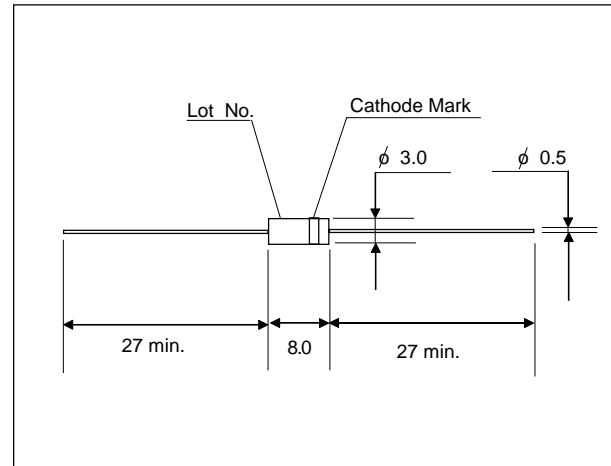
- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

Applications

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



Outline Drawings : mm



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

| Characteristic | Symbols | ESJA54-06A | Units | |
|---|-----------|------------------------|------------------|---------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 6.0 | kV | |
| Average Output Current $T_a=25^\circ\text{C}$, Resistive Load | I_o | 5.0 | mA | |
| Surge Current | I_{FSM} | 0.5 | A | |
| Maximum Forward Voltage Drop at 25°C , $I_F = I_{F(AV)}$ | V_F | 25 | V | |
| Maximum Reverse Current | V_{RRM} | at 25°C | 2.0 | μA |
| | | at 100°C | 5.0 | μA |
| Maximum Reverse Recovery Time at 25°C | T_{rr} | 80 | nS | |
| Junction Capacitance at 25°C , $V_R=0\text{V}$, $f=1\text{MHz}$ | C_j | 2.0 | pF | |
| Junction Temperature | T_j | 125 | $^\circ\text{C}$ | |
| Allowable Operation Case Temperature | T_c | 125 | $^\circ\text{C}$ | |
| Storage Temperature | T_{stg} | -40 to +125 | $^\circ\text{C}$ | |