

Instant Large Current Diode

FPSN4

● **Features**

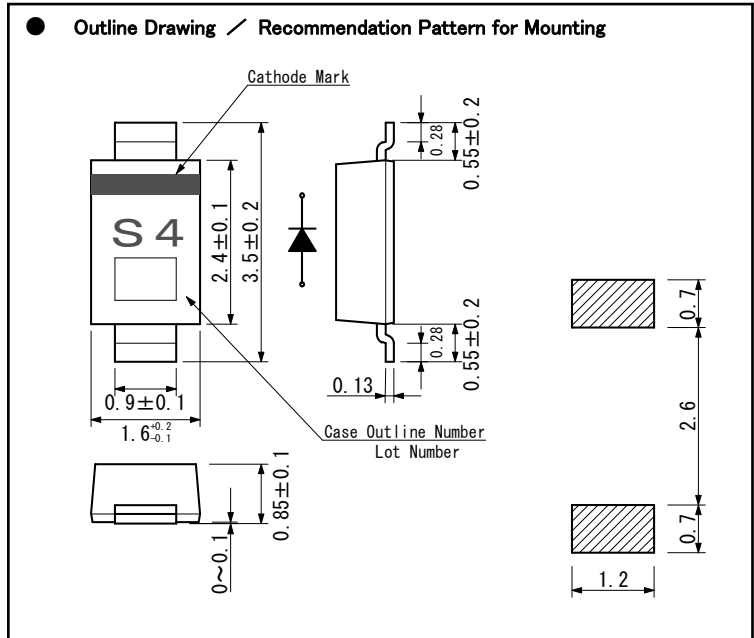
- Small size
- Taping capable of high density mounting

● **Applications**

- Discharging circuit of flash strobe

● **Structures**

- Resin molded, and diffused junction silicon diode.
- Marking symbol : [S4]
- Weight : 12mg
- Terminal plating : Sn
- Conforms to RoHS regulations



● **Absolute Maximum Ratings**

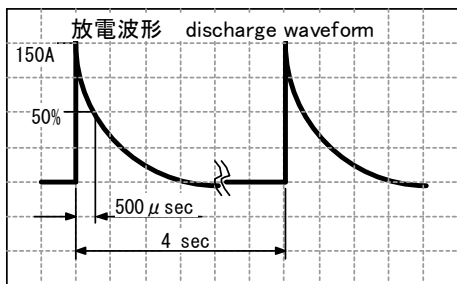
| Items | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|-----------|--|----------|-------------|
| Repetitive Peak Reverse Voltage | V_{RM} | — | 400 | V |
| Average Rectified Forward Current | I_O | $T_a=25^{\circ}C$, Half sin wave 180° , Resistive Load | 0.7 | A |
| Peak Forward Surge Current | I_{FSM} | $T_j=25^{\circ}C$, $t=500\mu s$, Discharge waveform (※2), Repetitive, for second 4 a round | 150 | A |
| Operating Junction Temperature | T_j | — | -40~+150 | $^{\circ}C$ |
| Storage Temperature | T_{stg} | — | -40~+150 | $^{\circ}C$ |

● **Electrical Characteristics**

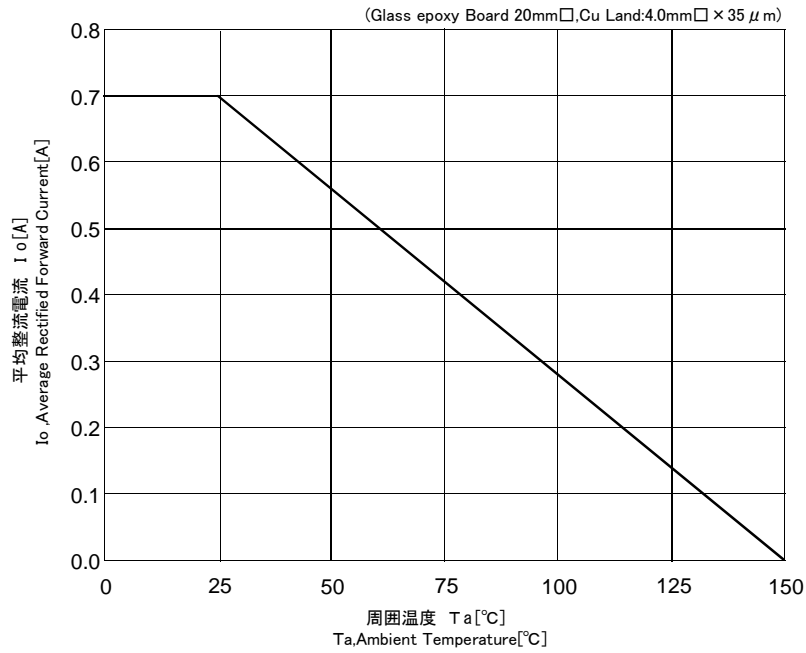
| Items | Symbol | Conditions | TYP. | MAX. | Unit |
|----------------------|---------------|------------------------------------|------|------|---------------|
| Forward Voltage Drop | V_F | $T_j=25^{\circ}C$, $I_f=0.7A$ | — | 1.0 | V |
| Reverse Current | I_R | $T_j=25^{\circ}C$, $V_R=400V$ | — | 10 | μA |
| Terminal resistance | $R_{th(j-a)}$ | Glass Epoxy Substrate mounted (※1) | — | 150 | $^{\circ}C/W$ |

(※1) Glass Epoxy mounted. (PC board size : 20mm × 20mm , Soldering land size : 4mm × 4mm)

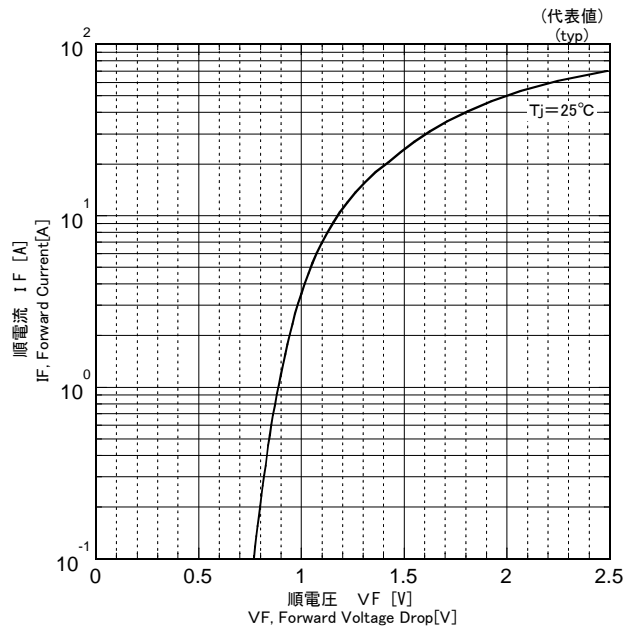
(※2) Discharge waveform



● Characteristics Diagrams



AVERAGE RECTIFIED FORWARD CURRENT



FORWARD CHARACTERISTICS