

Rectifier diode

1SR154-400 / 1SR154-600

●Applications

- 1) General purpose rectification
- 2) Surge absorption

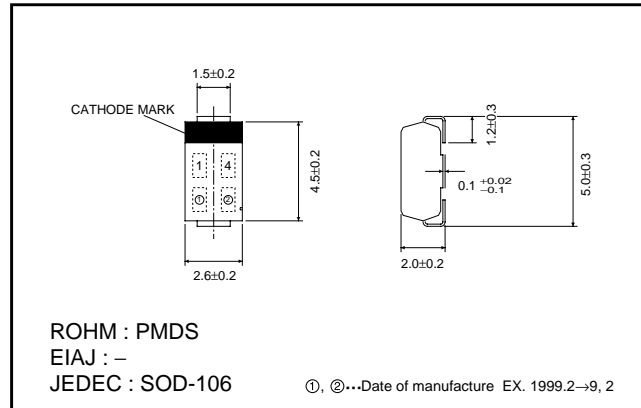
●Features

- 1) Small surface mounting type. (PMDS)
- 2) Outstanding reverse surge capability.
- 3) High reliability.

●Construction

Silicon diffused junction

●External dimensions (Units : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | | Symbol | Limits | Unit |
|-------------------------------|------------|------------------|----------|------|
| Absolute peak reverse voltage | 1SR154-400 | V _{RSM} | 500 | V |
| | 1SR154-600 | | 750 | |
| Peak reverse voltage | 1SR154-400 | V _{RM} | 400 | V |
| | 1SR154-600 | | 600 | |
| Mean rectifying current *1 | | I _o | 1.0 | A |
| Peak forward surge current *2 | | I _{FSM} | 30 | A |
| Junction temperature | | T _j | 150 | °C |
| Storage temperature | | T _{stg} | -55~+150 | °C |

*1 When mounted on an alumina PCB board *2 60 Hz for 1ms

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------------|------|------|------|------|----------------------|
| Forward voltage | V _F | - | - | 1.1 | V | I _F =1.0A |
| Reverse current | 1SR154-400 | - | - | 10 | μA | V _R =400V |
| | 1SR154-600 | - | - | 10 | | V _R =600V |

Diodes

●Electrical characteristic curves (Ta=25°C)

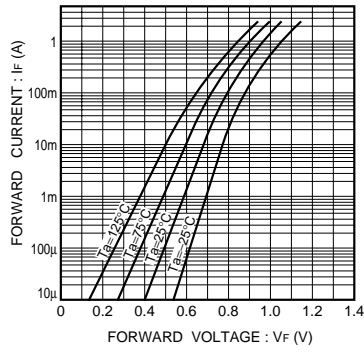


Fig. 1 Forward characteristics

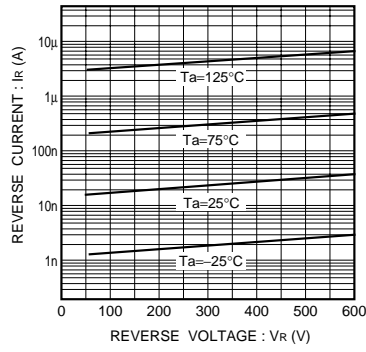


Fig. 2 Reverse characteristics

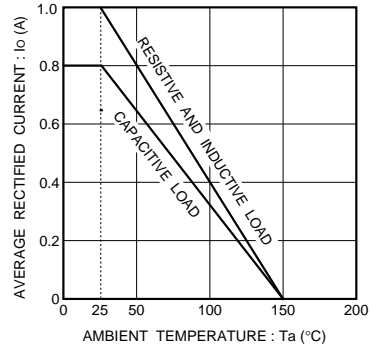


Fig. 3 Derating curve

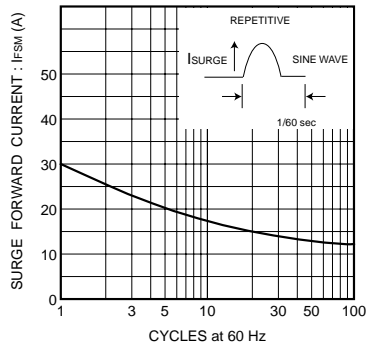


Fig. 4 Surge current characteristics (1)

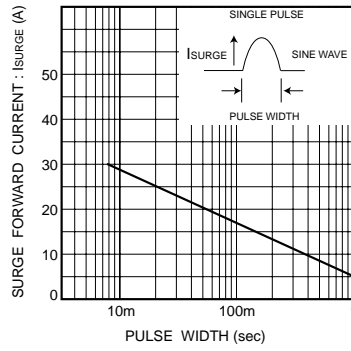


Fig. 5 Surge current characteristics (2)