

# Rectifier diode

## 1SR154-400 / 1SR154-600

### ●Applications

- 1) General purpose rectification
- 2) Surge absorption

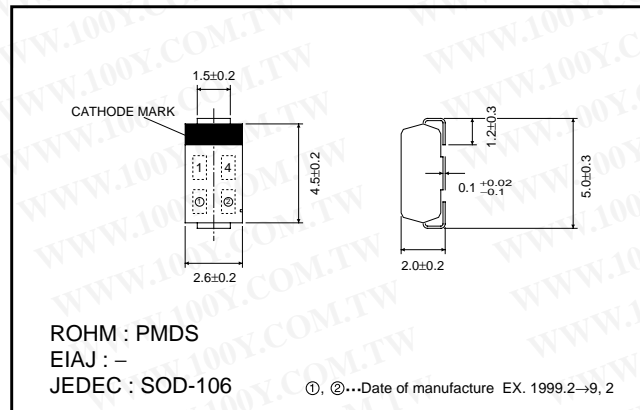
### ●Features

- 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	500	V
	1SR154-600	750	
Peak reverse voltage	1SR154-400	400	V
	1SR154-600	600	
Mean rectifying current *1	I <sub>o</sub>	1.0	A
Peak forward surge current *2	I <sub>FSM</sub>	30	A
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-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 <sub>F</sub>	-	-	1.1	V	I <sub>F</sub> =1.0A
Reverse current	1SR154-400	-	-	10	μA	V <sub>R</sub> =400V
	1SR154-600	-	-	10		V <sub>R</sub> =600V

Diodes

●Electrical characteristic curves (Ta = 25°C)

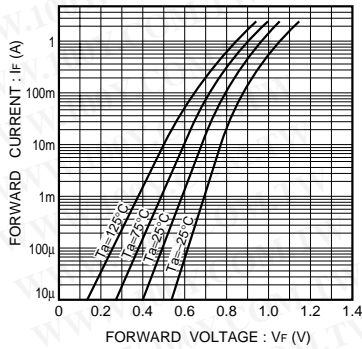


Fig. 1 Forward characteristics

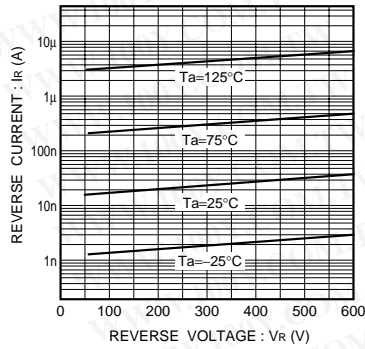


Fig. 2 Reverse characteristics

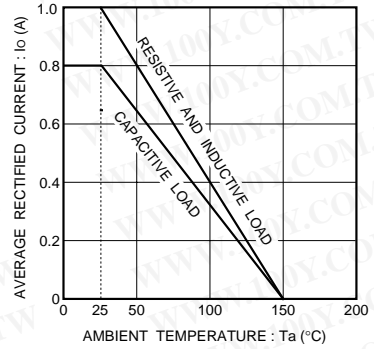


Fig. 3 Derating curve

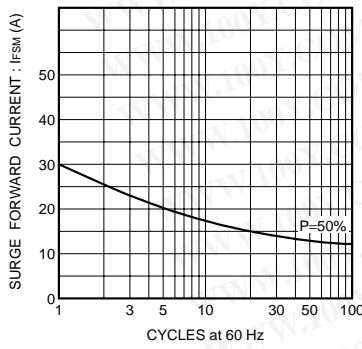


Fig. 4 Surge current characteristics