

Rectifier diode

1SR139-400 / 1SR139-600

● Applications

- 1) General purpose rectification
- 2) Surge absorption

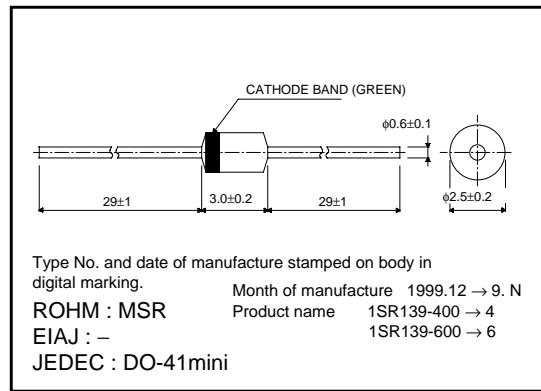
● Features

- 1) Cylindrical mold. (MSR)
- 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	1SR139-400	V _{RSM}	500		V
	1SR139-600		750		
Peak reverse voltage	1SR139-400	V _{RM}	400		V
	1SR139-600		600		
Mean rectifying current	I _o		1.0		A
Peak forward surge current *	I _{FSM}		40		A
Junction temperature	T _j		150		°C
Storage temperature	T _{stg}		-40~+150		°C

*60 Hz for 1 \triangle

● 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	1SR139-400	I _R	—	—	10	μA	V _R =400V
	1SR139-600		—	—	10		V _R =600V

Diodes

● Electrical characteristic curves ($T_a = 25^\circ\text{C}$)

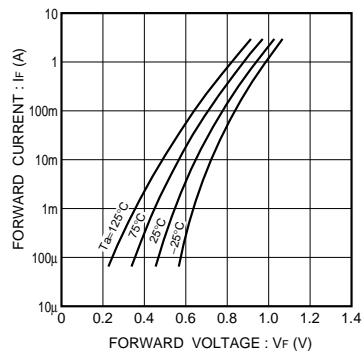


Fig. 1 Forward characteristics

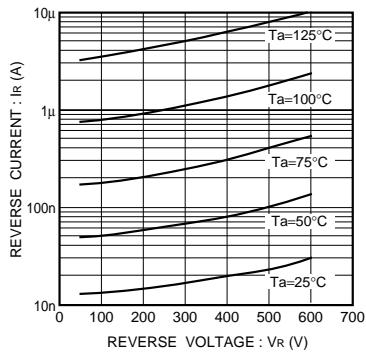


Fig. 2 Reverse characteristics

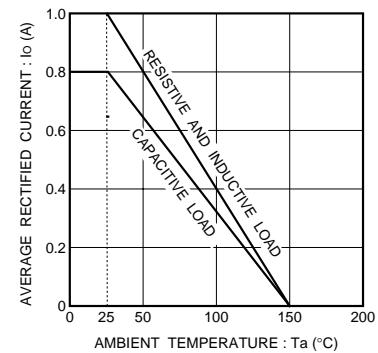


Fig. 3 Derating curve

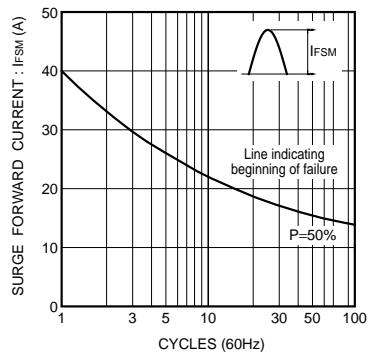


Fig. 4 Surge current characteristics

Appendix

Notes

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