

Diodes

Rectifier diode

1SR139-400 / 1SR139-600

●Applications

- 1) General purpose rectification
- 2) Surge absorption

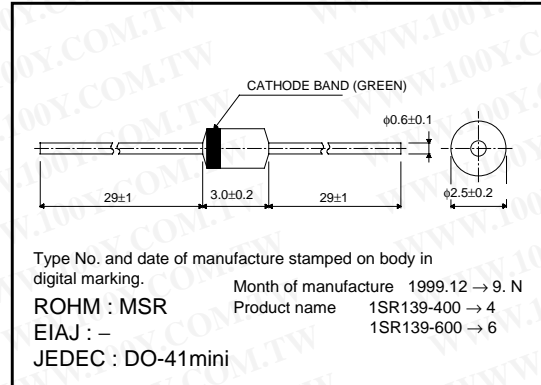
●Features

- 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	V _{RSM}	500	V
		750	
Peak reverse voltage	V _{RM}	400	V
		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 μ s

●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	I _R	-	-	10	μA	V _R =400V
		-	-	10		V _R =600V

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●Electrical characteristic curves (Ta = 25°C)

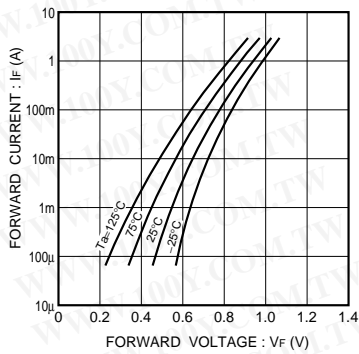


Fig. 1 Forward characteristics

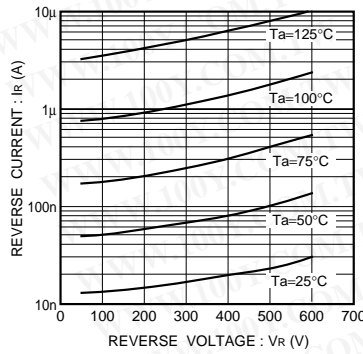


Fig. 2 Reverse characteristics

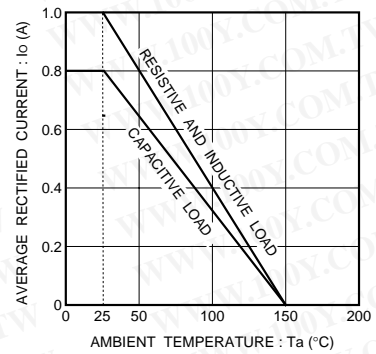


Fig. 3 Derating curve

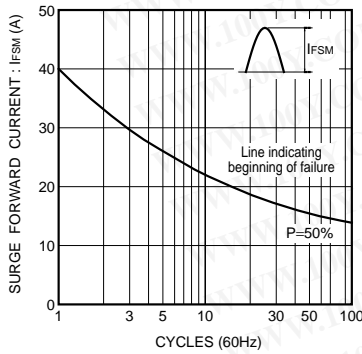


Fig. 4 Surge current characteristics

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