

1SR139-400 / 1SR139-600

Diodes

Rectifier diode

1SR139-400 / 1SR139-600

●Applications

- 1) General purpose rectification
- 2) Surge absorption

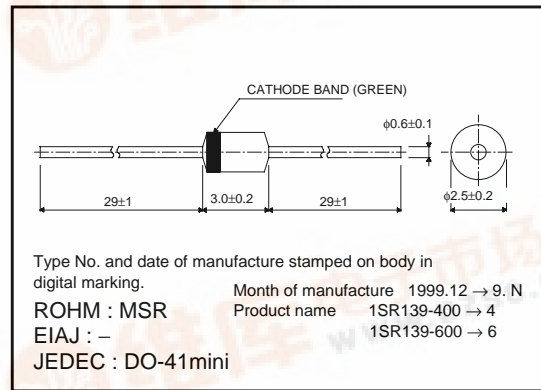
●Features

- 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	1SR139-400	500	V
	1SR139-600	750	
Peak reverse voltage	1SR139-400	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  $\mu$ 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	1SR139-400	-	-	10	$\mu A$	$V_R=400V$
	1SR139-600	-	-	10		$V_R=600V$

Diodes

●Electrical characteristic curves (Ta = 25°C)

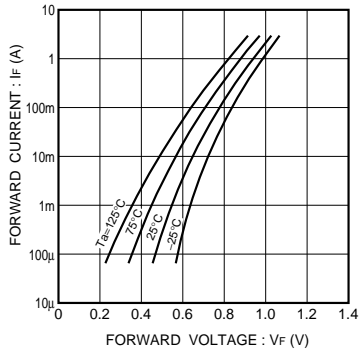


Fig. 1 Forward characteristics

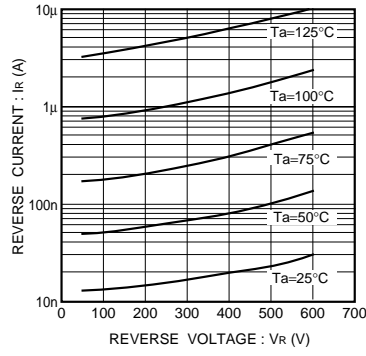


Fig. 2 Reverse characteristics

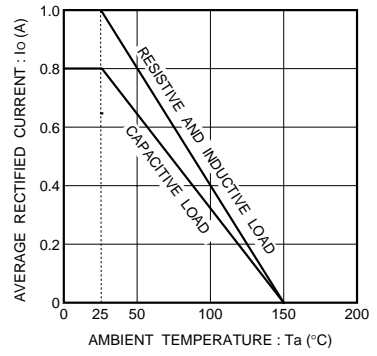


Fig. 3 Derating curve

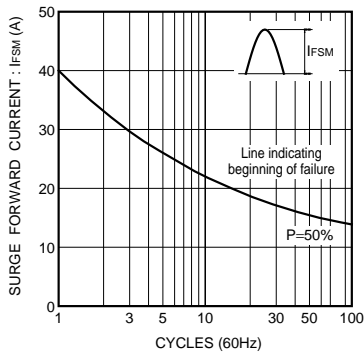


Fig. 4 Surge current characteristics