

1SR139-400 1SR139-600

Diode, rectifying, leaded

These cylinder-mold type diodes are designed for surge suppression circuits in power rectification circuits. They are able to withstand 40 A surges.

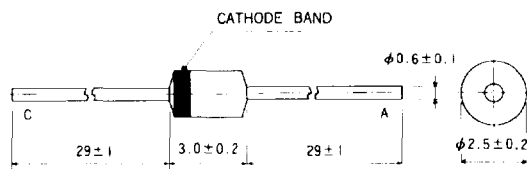
Features

- available in MSR package
- part marking, see following table
- reverse voltage 400 V or 600 V
- small pitch mechanical insertion package available

Applications

- rectifying
- surge absorption

Dimensions (Units : mm)



Cathode band color and marking¹

Part no.	Color	Marking
1SR139-400	Green	2R4
1SR139-600	Green	2R6

¹The type number (4(00) or 6(00)) and the month of production are marked on the body.

Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Limits	Unit	Conditions
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	60 Hz for 1 cycle
Junction temperature		T_j	150	$^\circ\text{C}$	
Storage temperature		T_{stg}	-40 ~ +150	$^\circ\text{C}$	

Electrical characteristics (unless otherwise noted, $T_a = 25^\circ\text{C}$)

Parameter		Symbol	Min	Typical	Max	Unit	Conditions
Forward voltage		V_F		0.95	1.1	V	$I_F = 1.0 \text{ A}$
Reverse current	1SR139-400	I_R		0.020	10	μA	$V_R = 400 \text{ V}$
	1SR139-600			0.030	10		$V_R = 600 \text{ V}$

Electrical characteristic curves

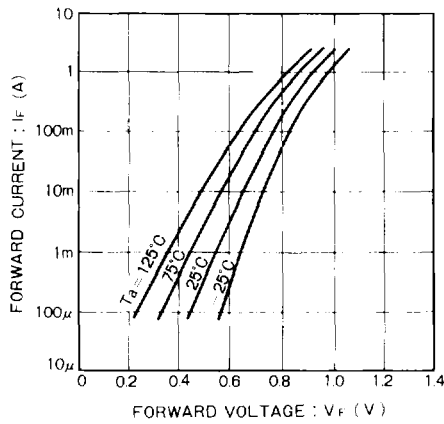


Figure 1

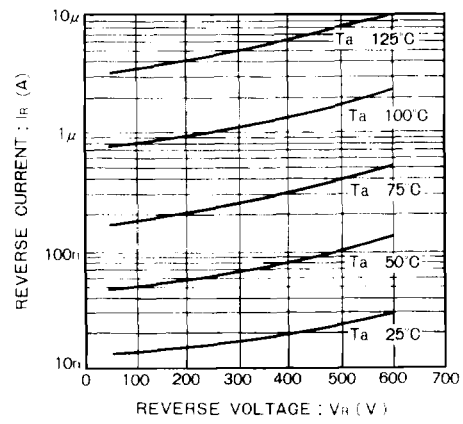


Figure 2

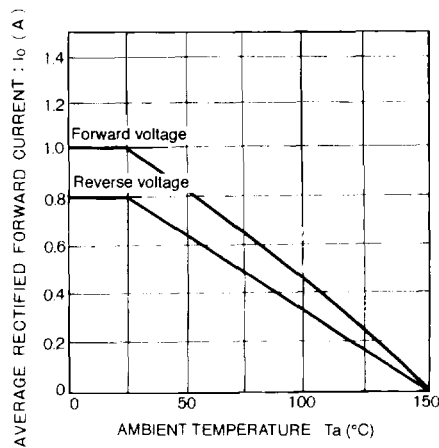


Figure 3

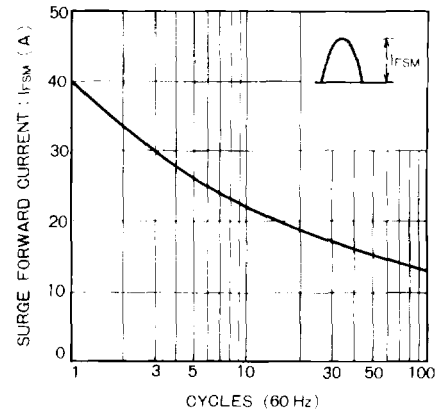


Figure 4