Rectifier diode

1SR139-400

Applications

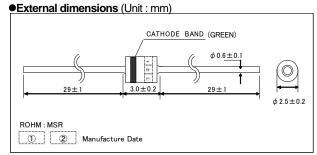
High speed rectification

● Features

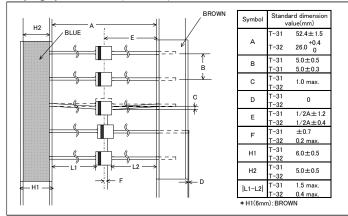
- 1) Cylindrical mold. (MSR)
- 2) High reliability.
- 3) Fast recovery speed.

●Construction

Silicon diffused junction



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

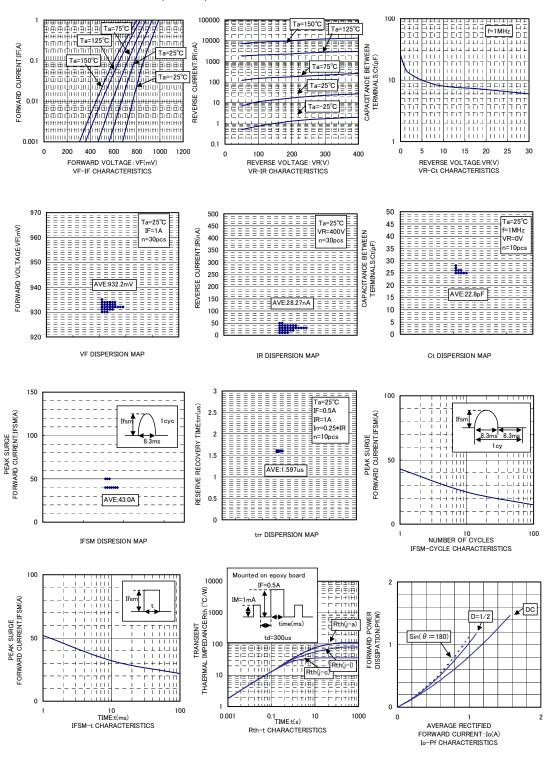
Parameter	Symbol	Limits	Unit
Absolute peak reverse voltage	V_{RMS}	500	V
Reverse voltage (repetitive peak)	V_R	400	V
Average rectified forward current (*1)	lo	1	Α
Forward current surge peak (60Hz · 1cyc)	I _{FSM}	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-40 to +150	°C

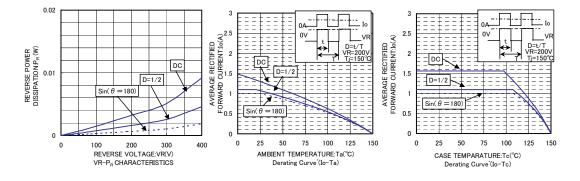
^(*1) Mounting on alumina board

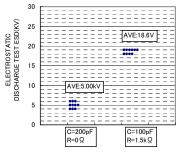
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	1.1	V	I _F =1.0A
Reverse current	I _R	-	-	10	uA	V _R =400V

●Electrical characteristic curves (Ta=25°C)







ESD DISPERSION MAP

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Appendix1-Rev1.1