Rectifier diode

1SR153-400

Applications

For fast rectifier

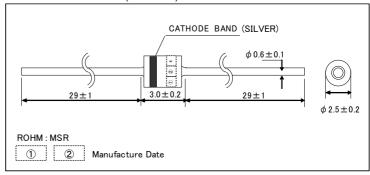
Features

- 1) Cylindrical mold type. (MSR)
- 2) High reliability.
- 3) High switching speed.

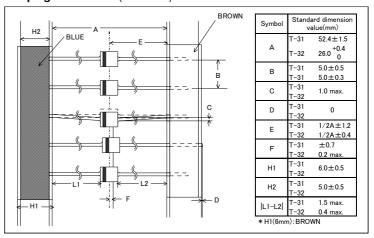
Construction

Silicon diffused junction

●External dimensions (Unit : mm)



●Taping dimensions (Unit : mm)



● **Absolute maximum ratings** (Ta=25°C)

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Parameter	Symbol Limits		Unit				
Maximum peak surge reverse voltage	V_{RMS}	500	V				
Surge reverse voltage	V_R	400	V				
Average rectified forward current (*1)	lo	1	Α				
Forward current surge peak (60Hz·1cyc)	I _{FSM}	30	Α				
Junction temperature	Tj	150	°C				
Storage temperature	Tstg	-40 to +150	°C				

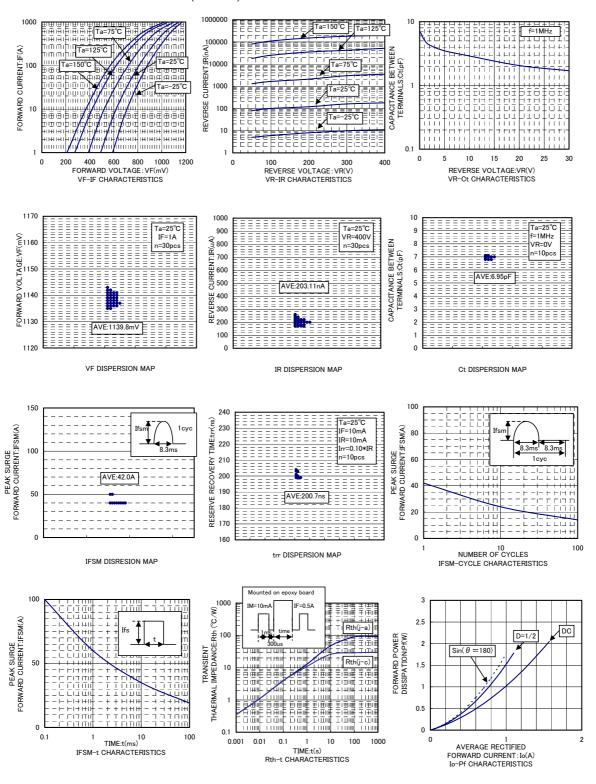
^(*1)Mounting on alumina board

●Electrical characteristics (Ta=25°C)

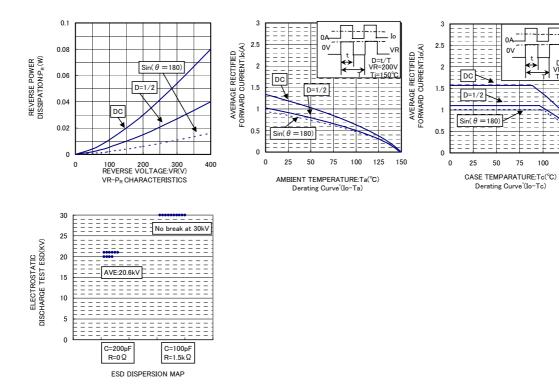
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	1.3	٧	I _F =0.8A
Reverse current	I _R	-	-	10	uA	V _R =400V
Reverse recovery time	trr	-	-	0.4	us	$I_F=10mA,I_R=10mA,Irr=1mA$



●Electrical characteristic curves (Ta=25°C)



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