

Fast recovery diode

RF101A2S

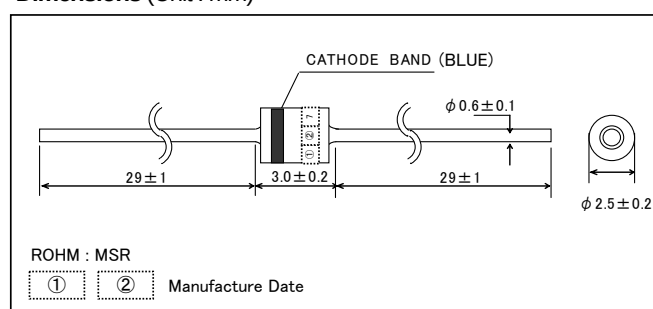
●Applications

General rectification

●Features

- 1) Cylindrical mold type. (MSR)
- 2) Ultra Low V_F
- 3) Ultra high switching.
- 4) Low switching loss.
- 5) High ESD.

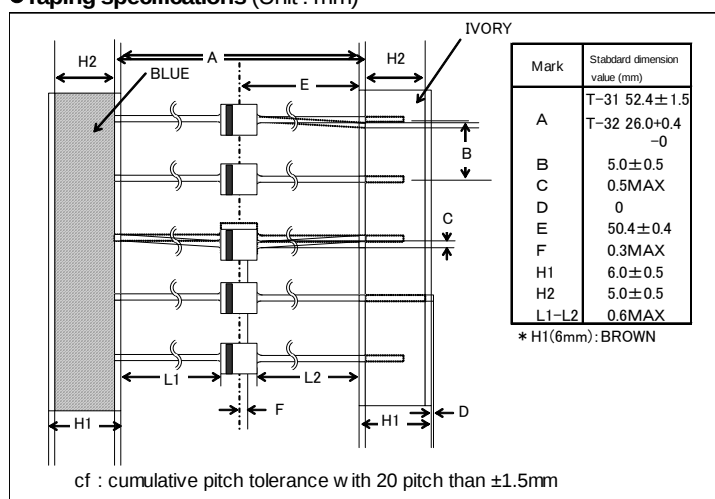
●Dimensions (Unit : mm)



●Construction

Silicon epitaxial planar

●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current(*1)	I_O	1	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	20	A
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

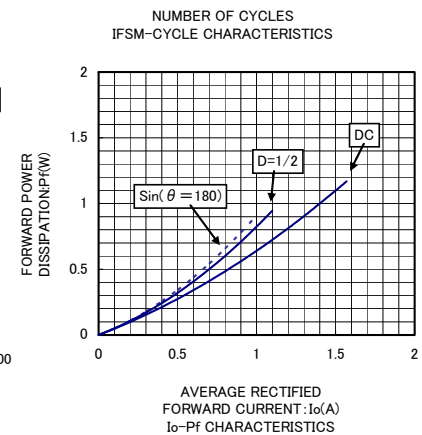
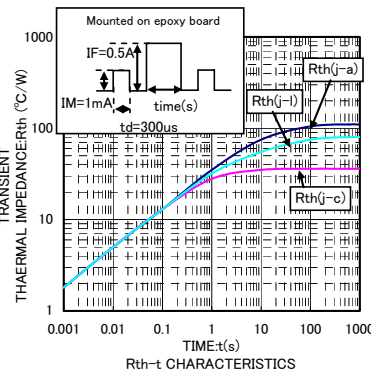
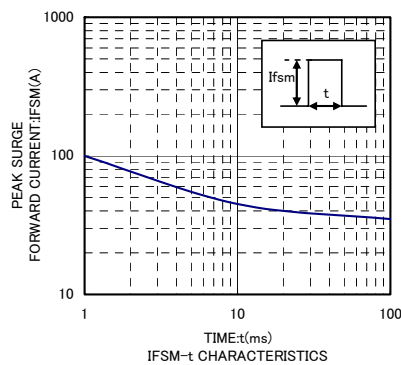
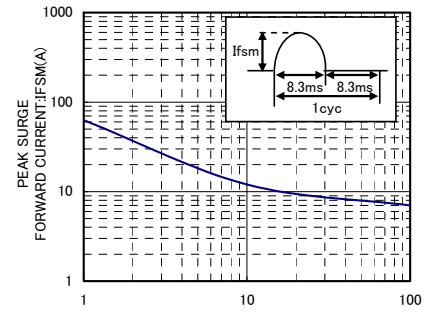
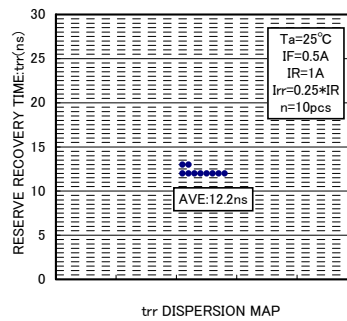
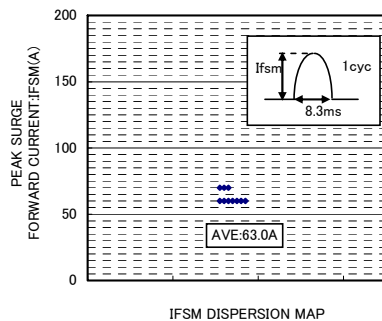
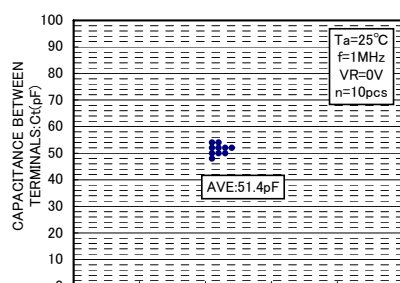
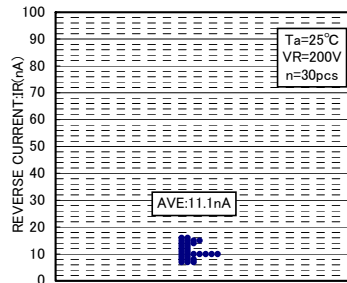
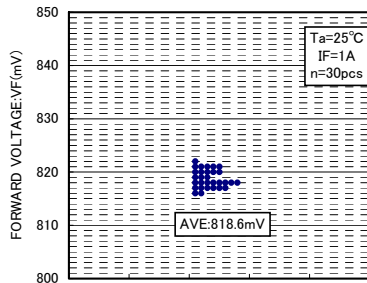
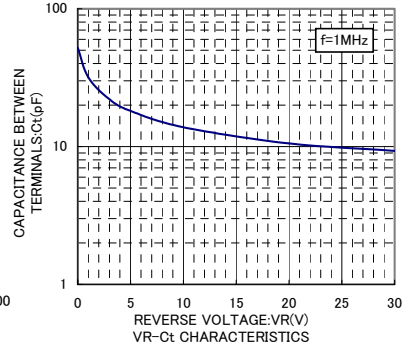
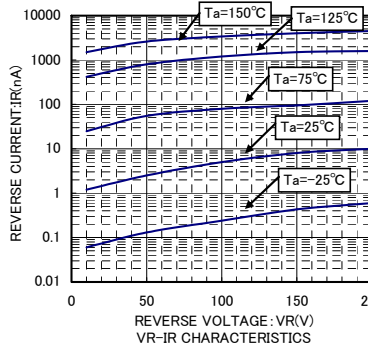
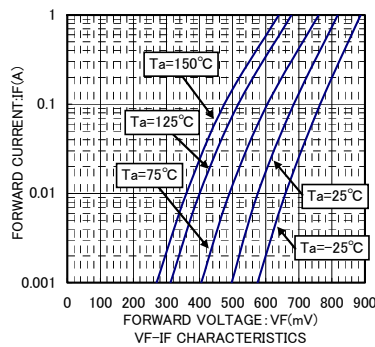
(*1) Mounting on epoxi board. 180° Half sine wave

●Electrical characteristic (Ta=25°C)

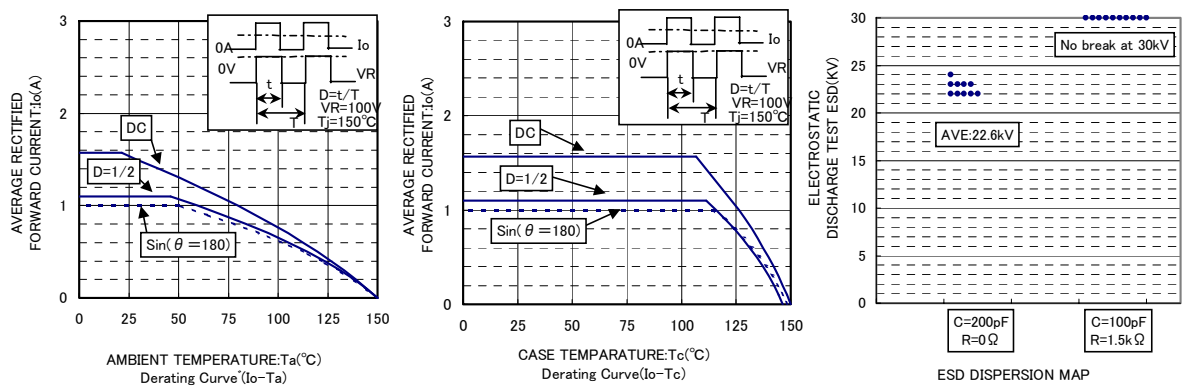
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.815	0.87	V	$I_F=1.0A$
Reverse current	I_R	-	0.01	10	μA	$V_R=200V$
Reverse recovery time	t_{rr}	-	12	25	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$

Diodes

●Electrical characteristic curves



Diodes



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