

# Fast recovery diode

## RF101A2S

### ●Applications

General rectification

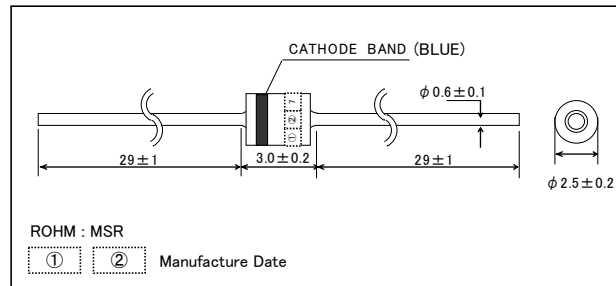
### ●Features

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

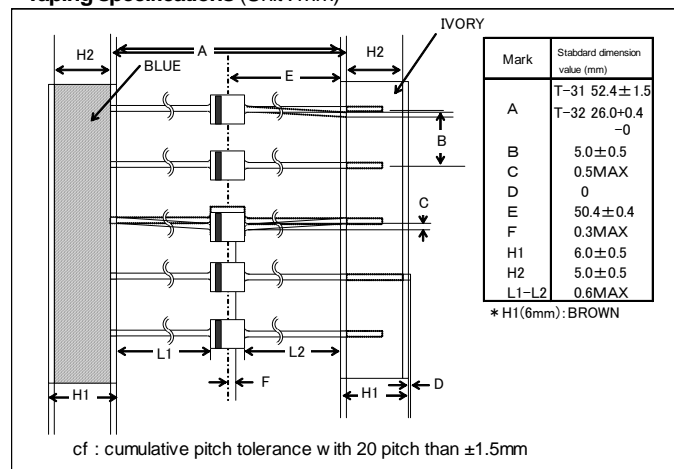
### ●Construction

Silicon epitaxial planar

### ●Dimensions (Unit : mm)



### ●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

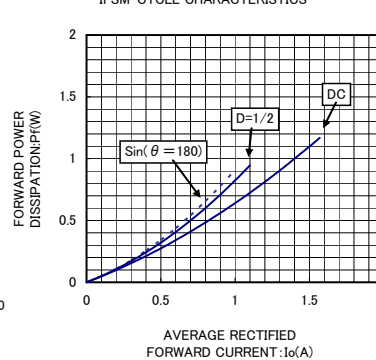
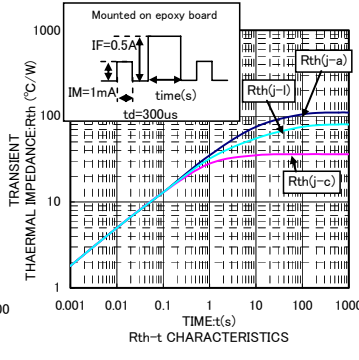
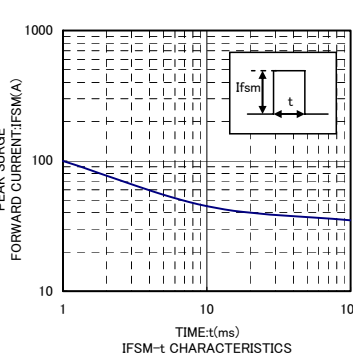
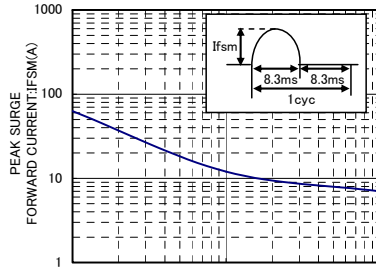
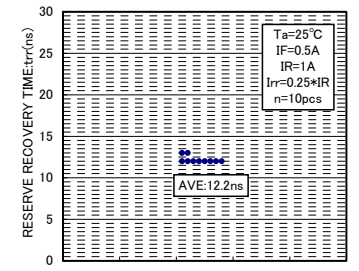
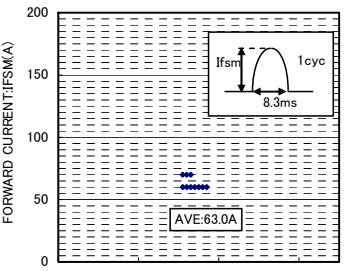
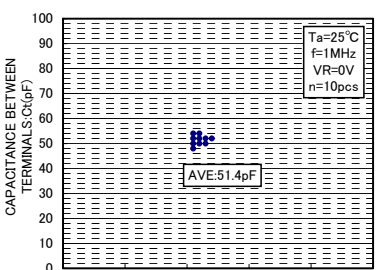
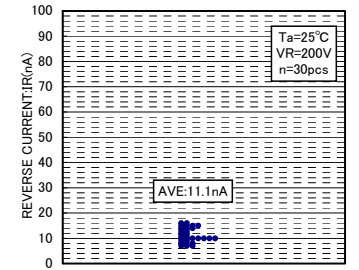
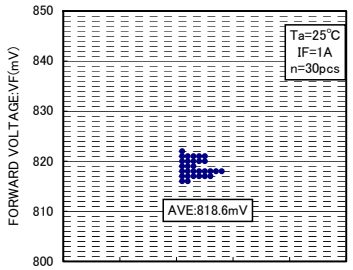
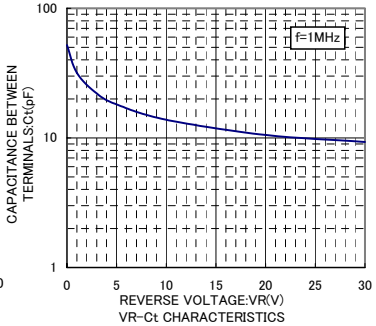
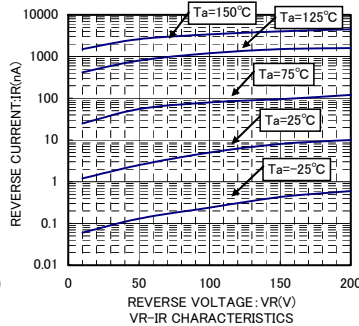
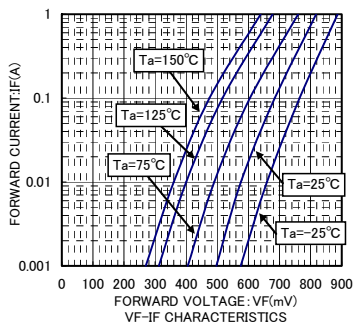
(\*1) Mounting on epoxy board. 180° Half sine wave

### ●Electrical characteristic (Ta=25°C)

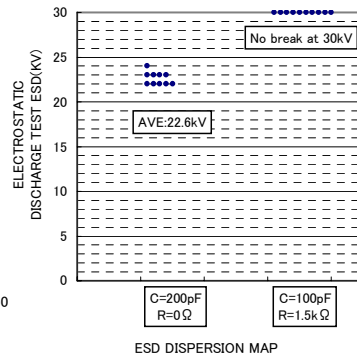
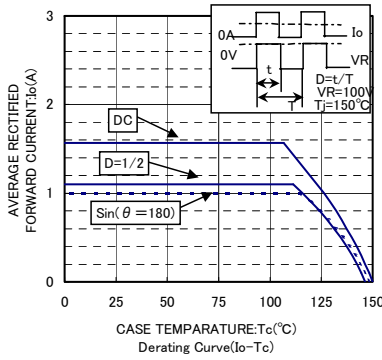
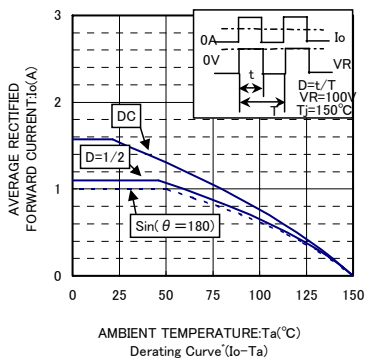
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.815	0.87	V	$I_F=1.0A$
Reverse current	$I_R$	-	0.01	10	μA	$V_R=200V$
Reverse recovery time	$t_{rr}$	-	12	25	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$

Diodes

● Electrical characteristic curves



Diodes



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