

## Rectifier diode

## 1SR156-400

## ●Applications

For fast rectifier

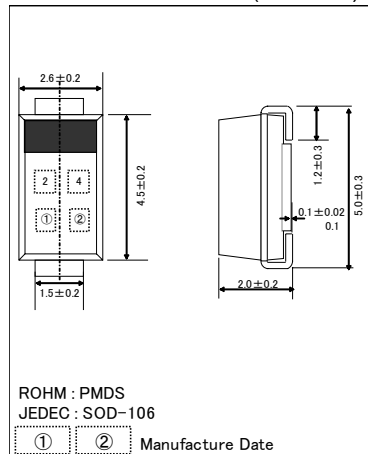
## ●Features

- 1) Small power mold type. (PMDS)
- 2) High reliability.
- 3) High switching speed.

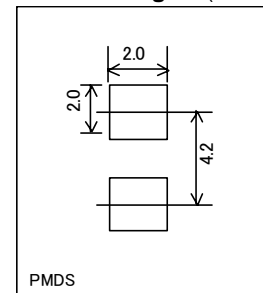
## ●Construction

Silicon diffused junction

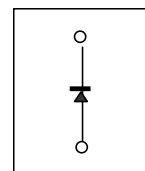
## ●External dimensions (Unit : mm)



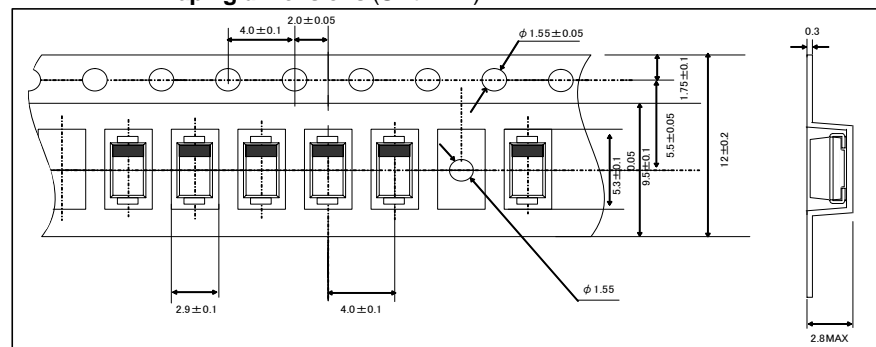
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RMS}$	500	V
Reverse voltage (DC)	$V_R$	400	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

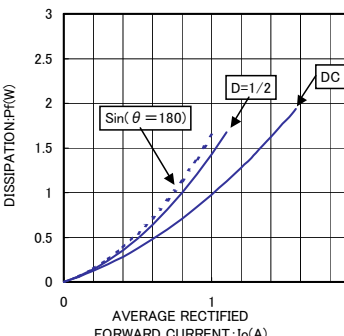
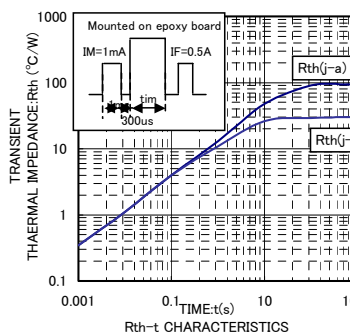
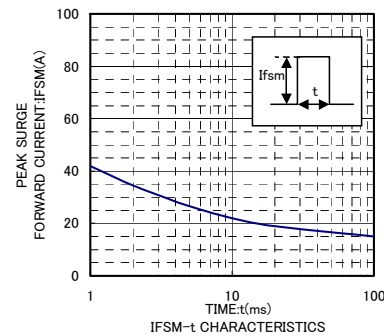
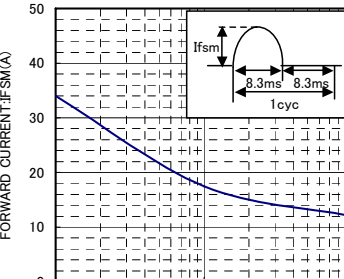
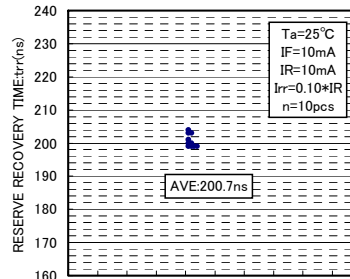
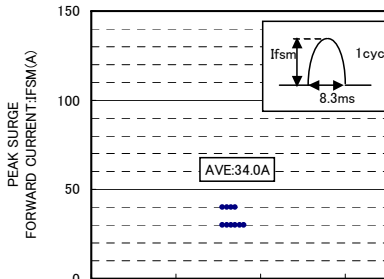
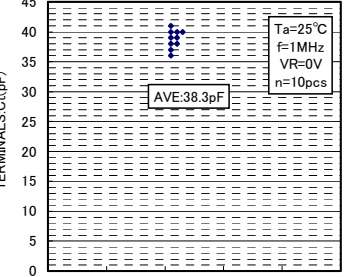
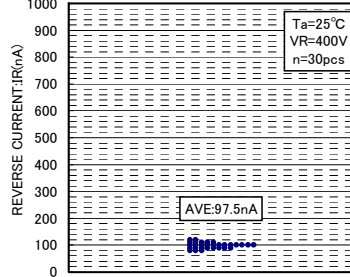
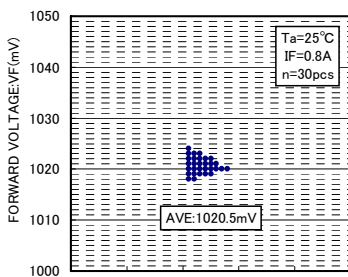
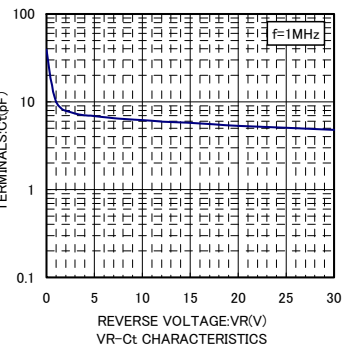
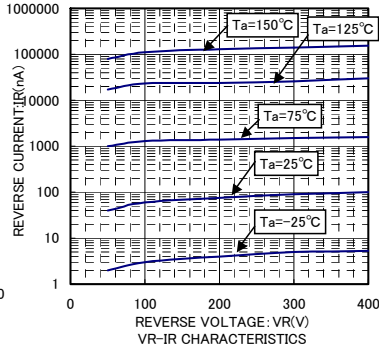
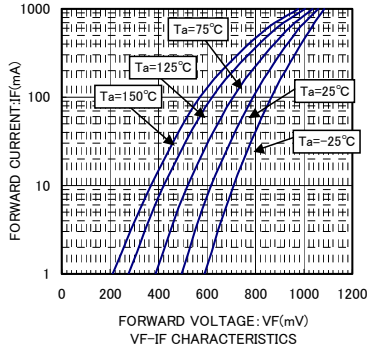
(\*1) Mounting on alumina board

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

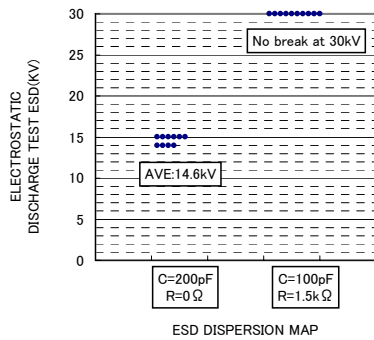
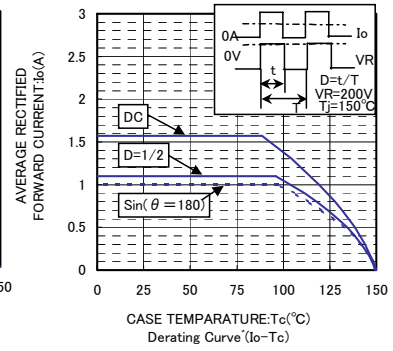
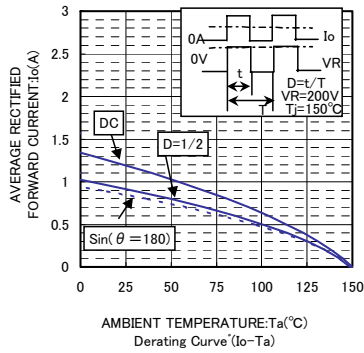
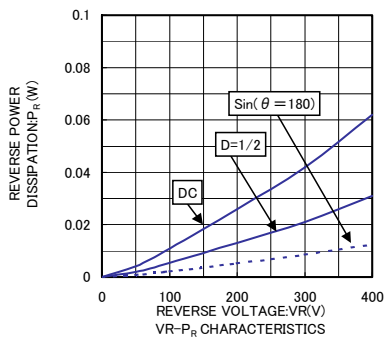
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.3	V	$I_F=0.8A$
Reverse current	$I_R$	-	-	10	uA	$V_R=400V$
Reverse recovery time	$t_{rr}$	-	-	0.4	us	$I_F=10mA, I_R=10mA, I_{rr}=1mA$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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