

Rectifier diode

1SR156-400

●Applications

For fast rectifier

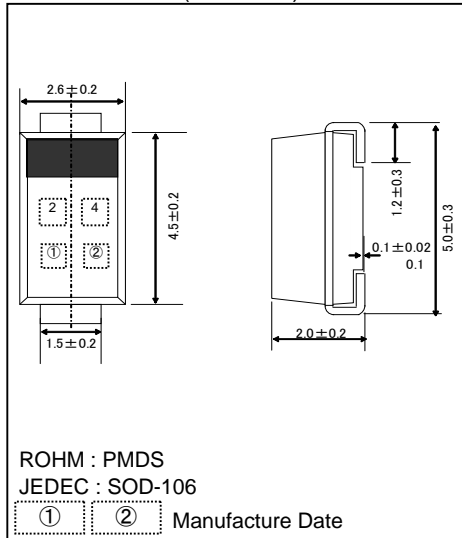
●Features

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

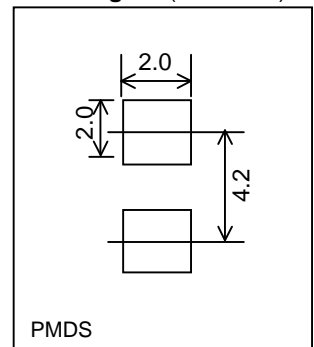
●Construction

Silicon diffused junction

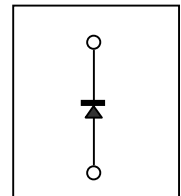
●Dimensions (Unit : mm)



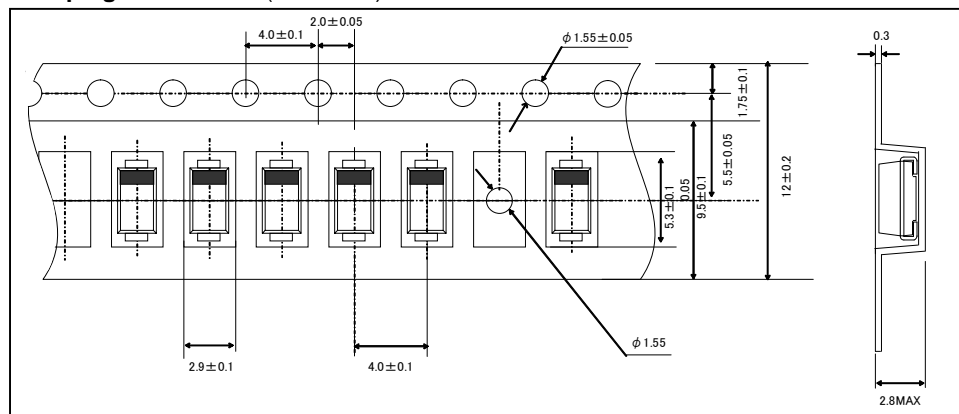
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



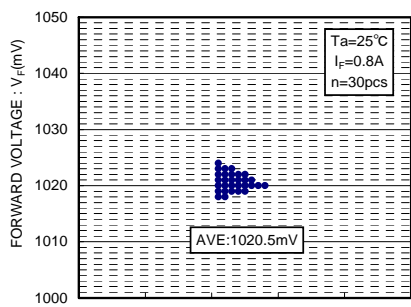
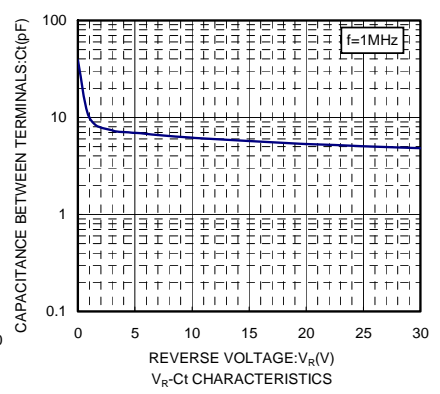
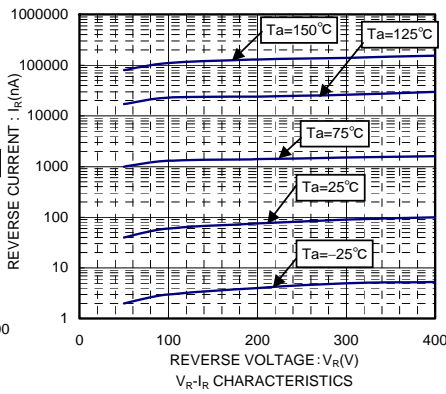
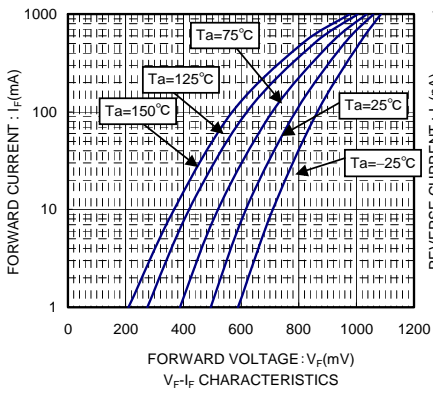
●Absolute maximum ratings (Ta=25°C)

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

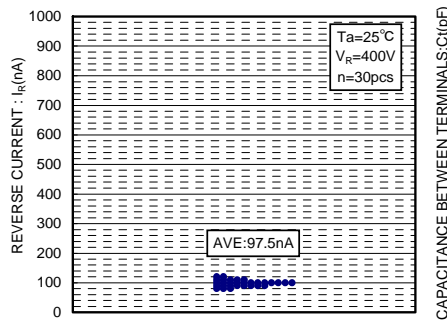
(*1) Mounted on alumina board

●Electrical characteristics (Ta=25°C)

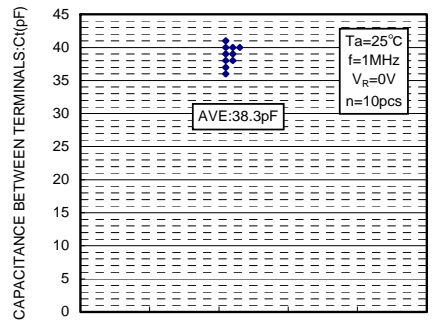
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.3	V	$I_F=0.8A$
Reverse current	I_R	-	-	10	uA	$V_R=400V$
Reverse recovery time	t_{rr}	-	-	0.4	us	$I_F=10mA, I_R=10mA, I_{rr}=1mA$



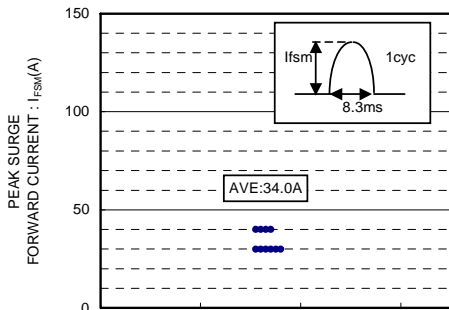
V_F DISPERSION MAP



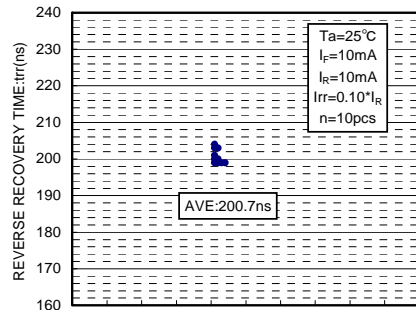
I_R DISPERSION MAP



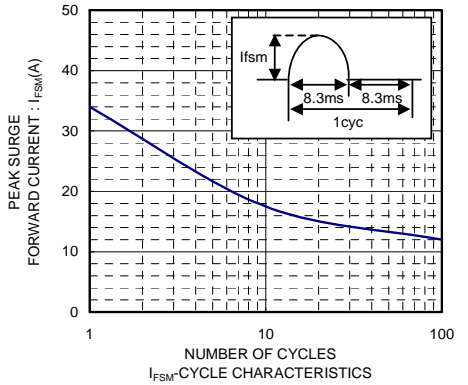
C_t DISPERSION MAP



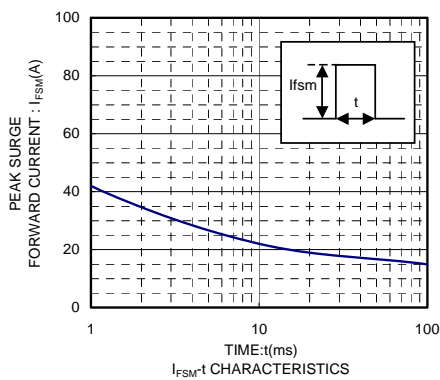
I_{FSM} DISPERSION MAP



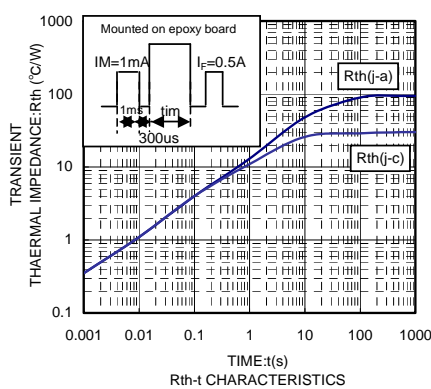
t_{rr} DISPERSION MAP



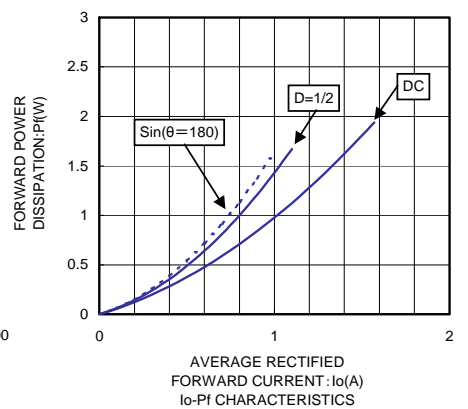
I_{FSM} CYCLE CHARACTERISTICS



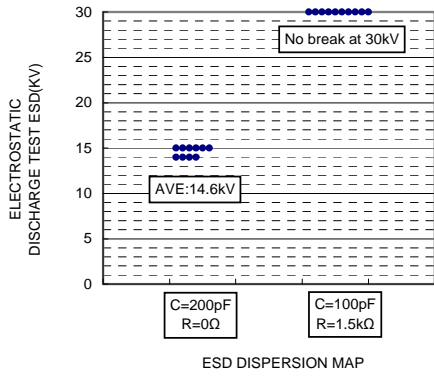
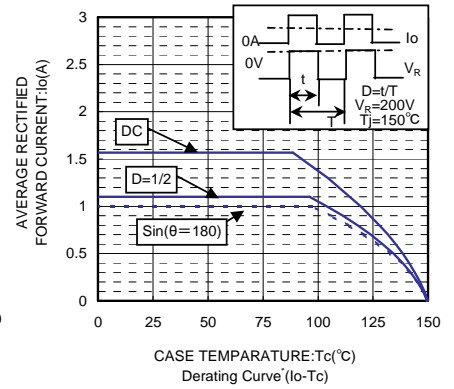
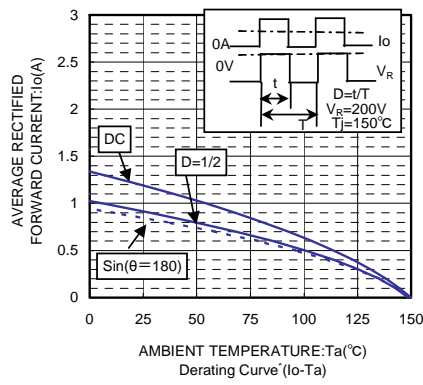
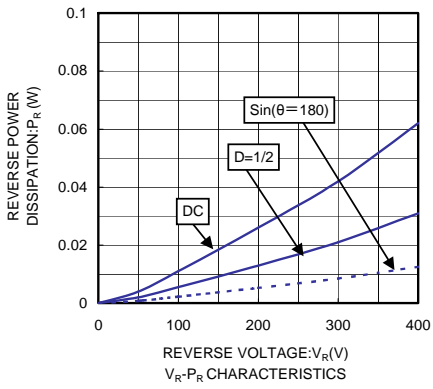
I_{FSM} -t CHARACTERISTICS



R_{th} -t CHARACTERISTICS



I_{o-PF} CHARACTERISTICS



Notes

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