

Rectifier diode

RR255M-400

●Applications

General rectification

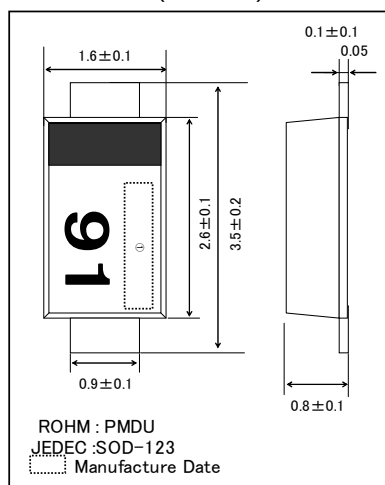
●Features

- 1) Small power mold type. (PMDU)
- 2) High reliability

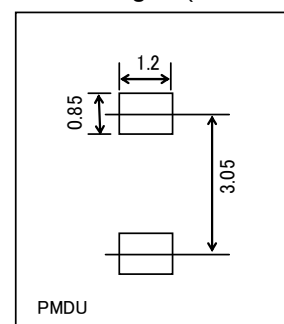
●Construction

Silicon epitaxial planar

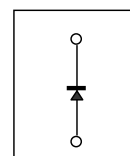
●Dimensions (Unit : mm)



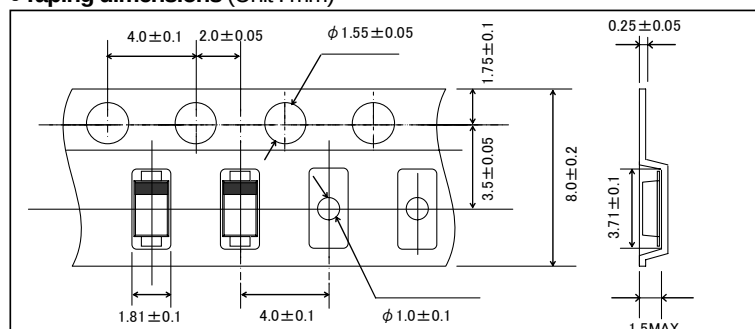
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Absolute peak reverse voltage	V_R	400	V
Average rectified forward current(*1)	I_o	0.7	A
Forward current surge peak (1pulse/4S $t=500\mu\text{s}$)	I_{FRM}	150	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

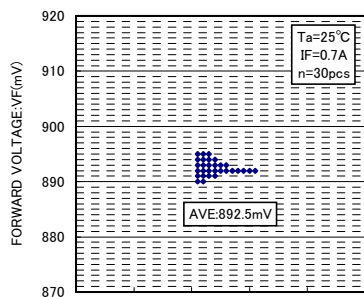
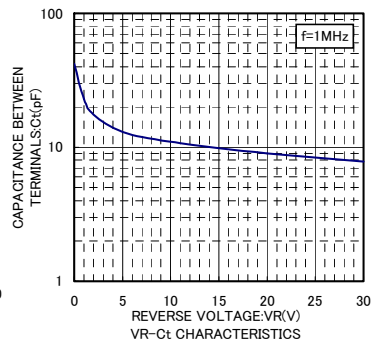
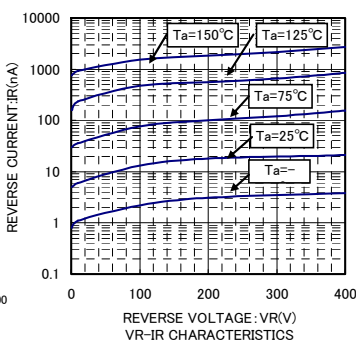
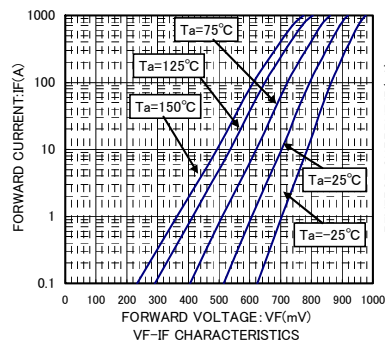
(*1) Mounting on epoxy board. 180° Half sine wave

●Electrical characteristic ($T_a=25^\circ\text{C}$)

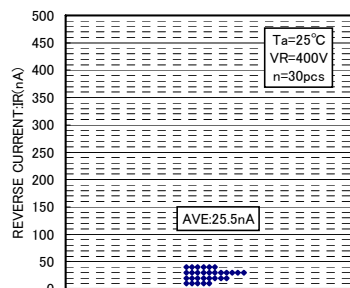
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.98	V	$I_F=0.7\text{A}$
Reverse current	I_R	-	-	1	μA	$V_R=400\text{V}$

Diodes

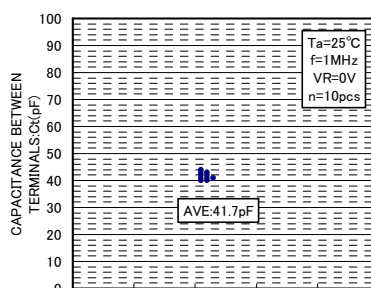
●Electrical characteristic curves



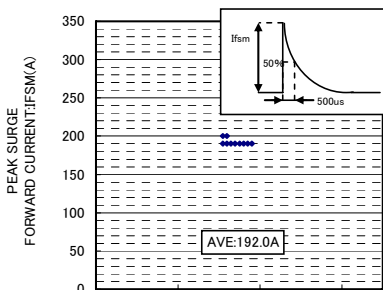
VF DISPERSION MAP



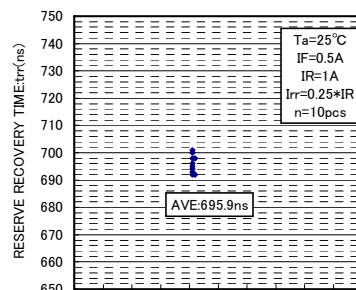
IR DISPERSION MAP



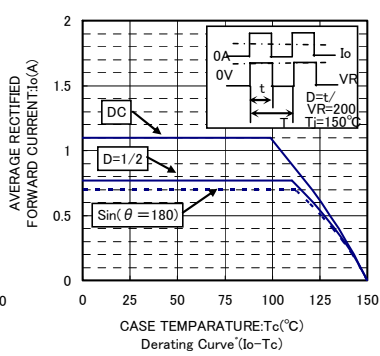
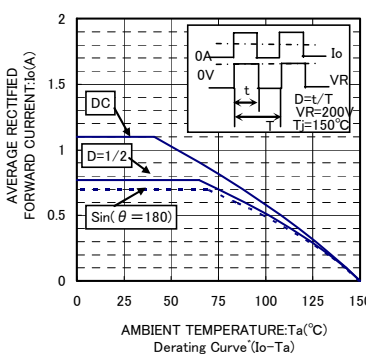
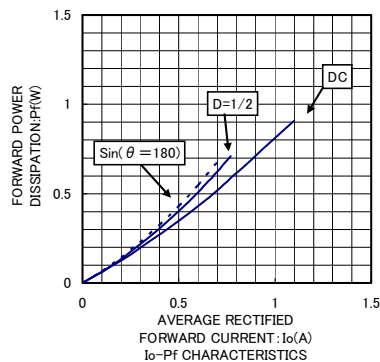
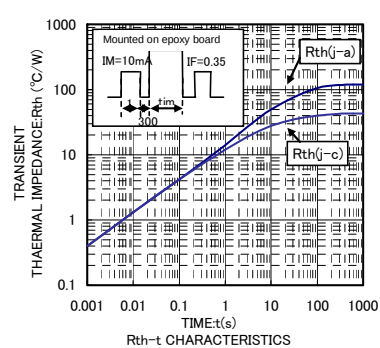
Ct DISPERSION MAP



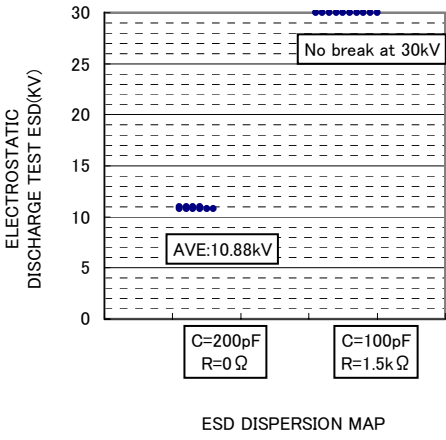
IFSM DISPERSION MAP



trr DISPERSION MAP



Diodes



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