

# Rectifier Diode

RR255M-400

● **Applications**

General rectification

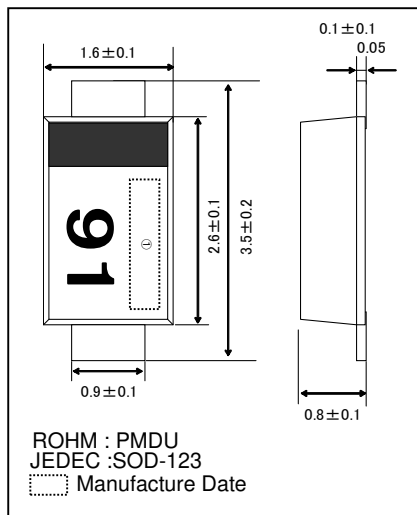
● **Features**

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

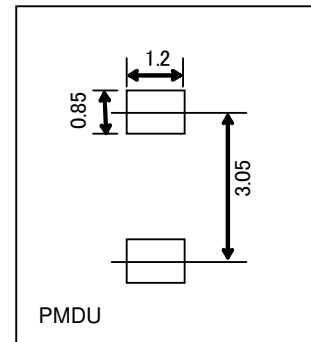
● **Construction**

Silicon epitaxial planar

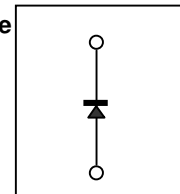
● **Dimensions (Unit : mm)**



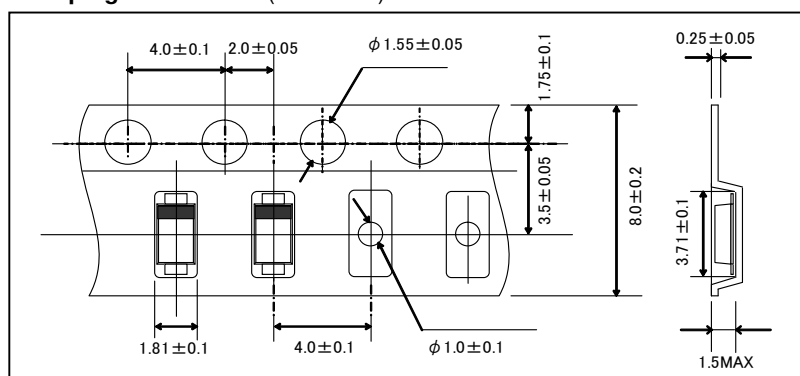
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



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

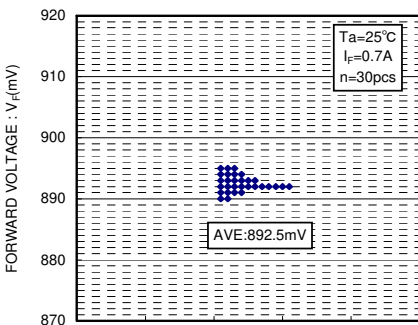
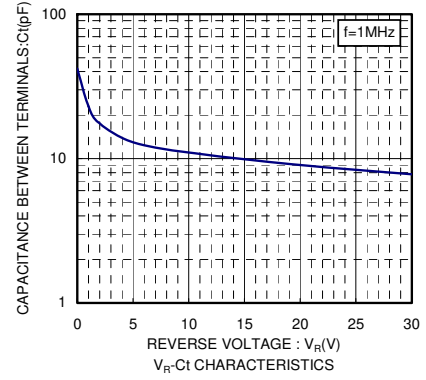
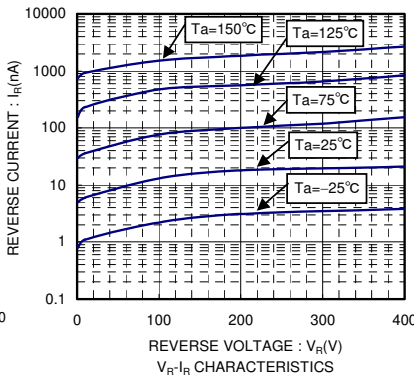
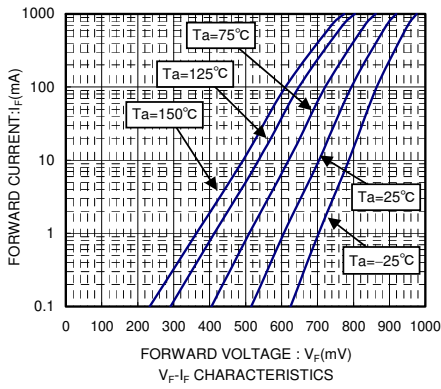
Parameter	Symbol	Limits	Unit
Absolute peak reverse voltage	$V_{RM}$	400	V
Reverse voltage(DC)	$V_R$	400	V
Average rectified forward current(*1)	$I_o$	0.7	A
Forward current surge peak (1pulse/4S t=500us)	$I_{FRM}$	150	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

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

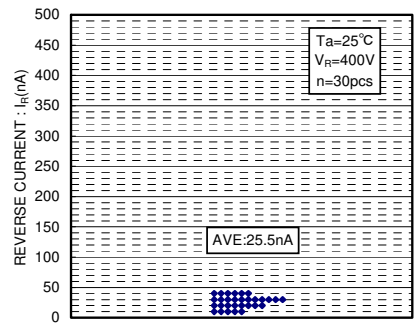
● **Electrical characteristics (Ta=25°C)**

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

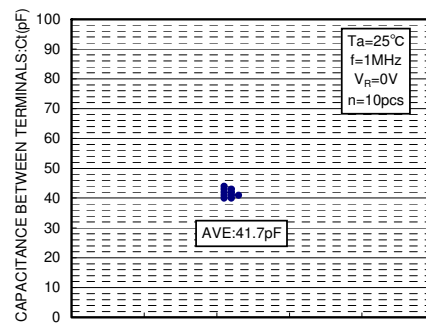
●Electrical characteristic curves



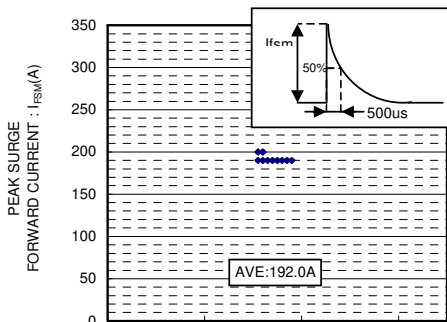
$V_F$  DISPERSION MAP



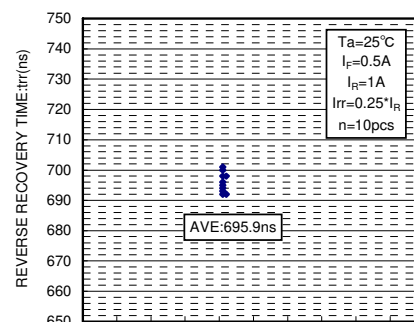
$I_R$  DISPERSION MAP



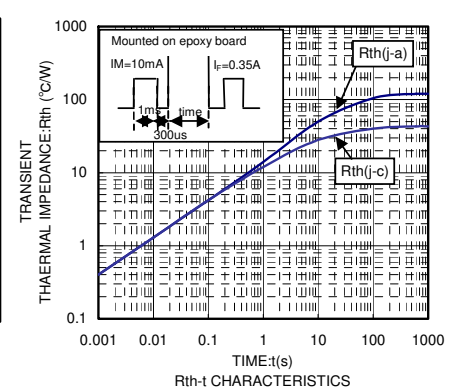
$C_t$  DISPERSION MAP



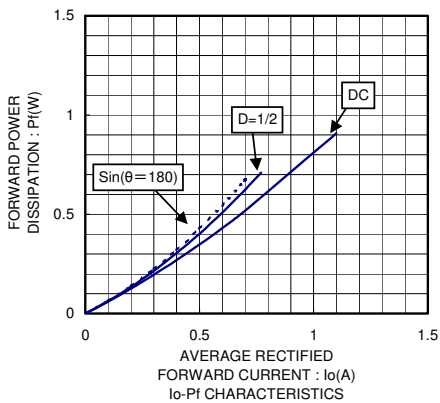
$I_{FSM}$  DISPERSION MAP



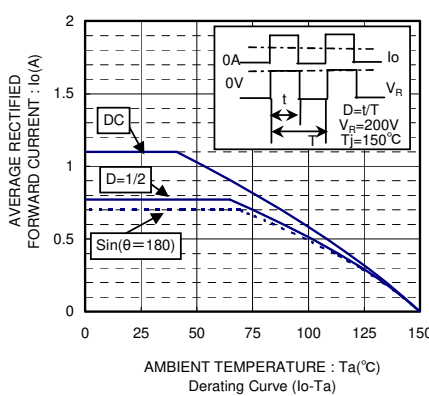
$t_{rr}$  DISPERSION MAP



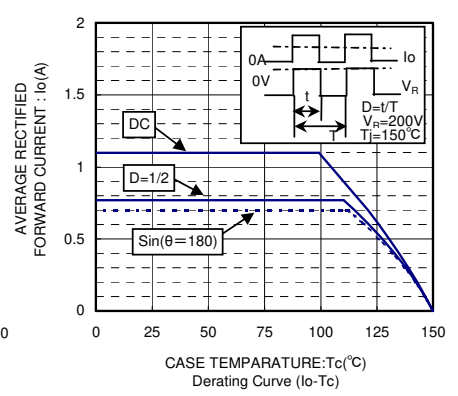
$R_{th}$ -t CHARACTERISTICS



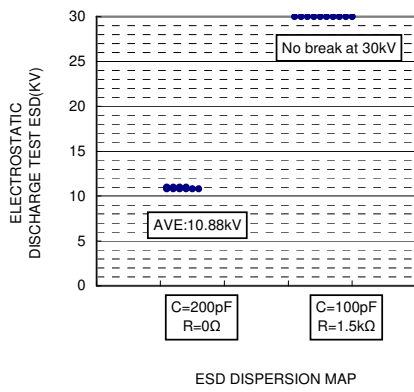
$I_o$ - $P$  CHARACTERISTICS



Derating Curve ( $I_o$ - $T_a$ )



Derating Curve ( $I_o$ - $T_c$ )



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