

Fast recovery Diode

RF071M2S

● Applications

General rectification

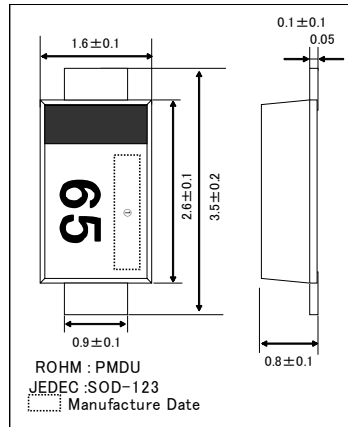
● Features

- 1) Small power mold type. (PMDU)
- 2) Ultra low V_F
- 3) Very fast recovery
- 4) Low switching loss

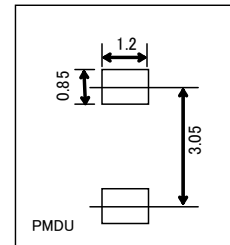
● Construction

Silicon epitaxial planar

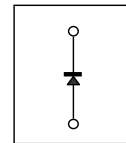
● Dimensions (Unit : mm)



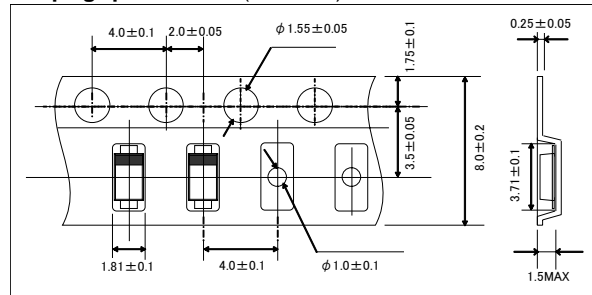
● Land size figure (Unit : mm)



● Structure



● 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
Forward current (DC)	I_F	1	A
Average rectified forward current (*1)	I_o	0.7	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	15	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

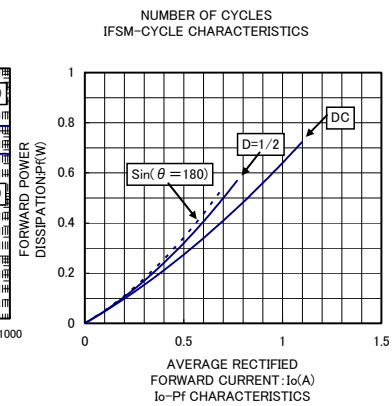
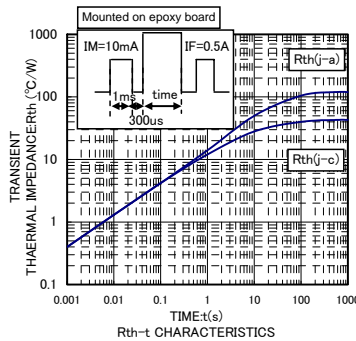
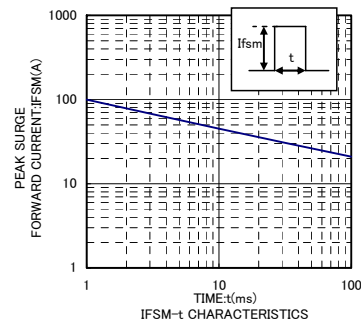
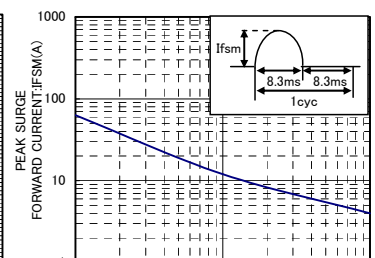
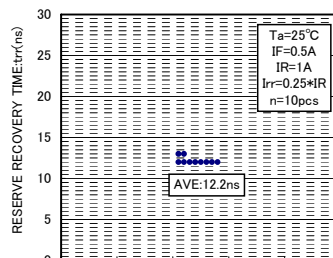
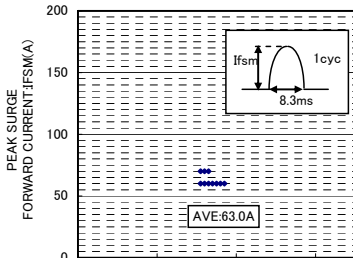
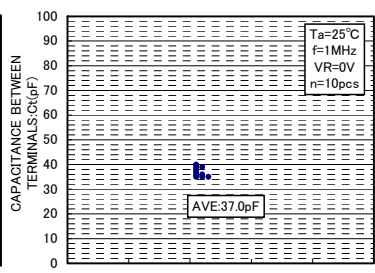
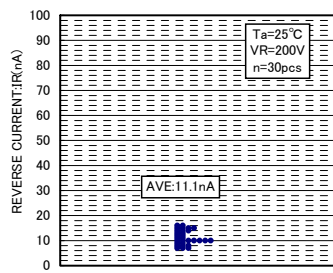
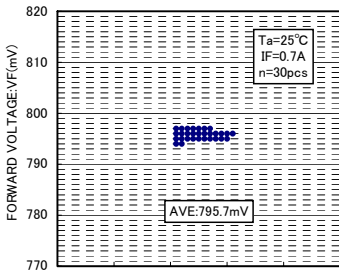
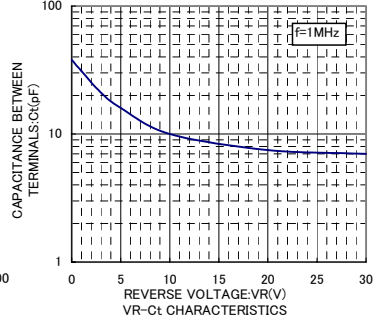
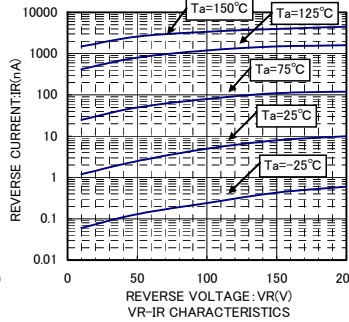
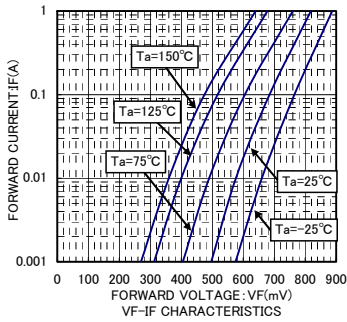
(*1) Mounting on epoxy board. 180° Half sine wave

● Electrical characteristics (Ta=25°C)

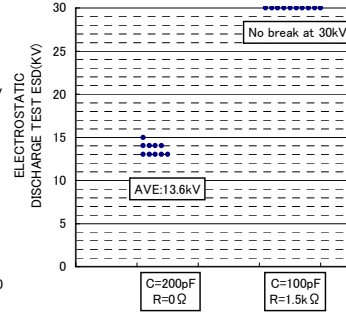
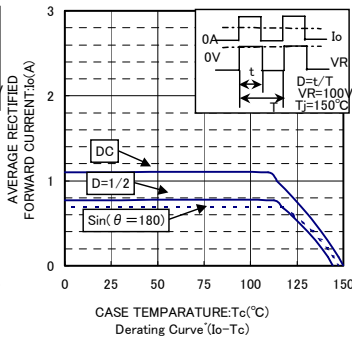
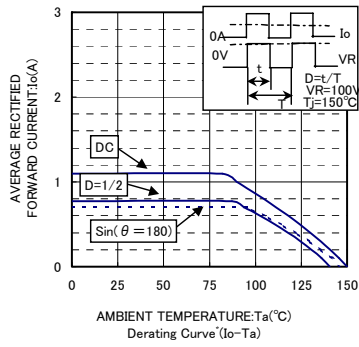
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.79	0.85	V	$I_F=0.7A$
Reverse current	I_R	-	0.01	10	μA	$V_R=200V$
Reverse recovery time	t_{rr}	-	12	25	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25*I_R$

Diodes

● Electrical characteristic curves (Ta=25°C)



Diodes



ESD DISPERSION MAP

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