

Schottky barrier diode

RB160M-30

● **Applications**

General rectification

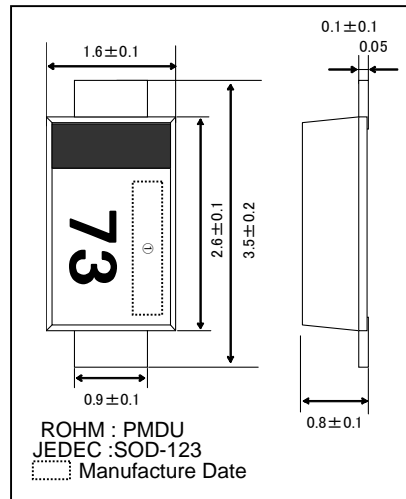
● **Features**

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

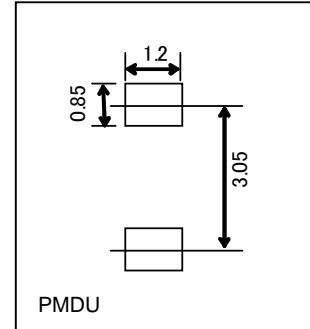
● **Construction**

Silicon epitaxial planer

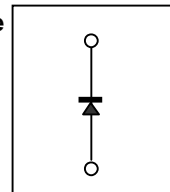
● **Dimensions (Unit : mm)**



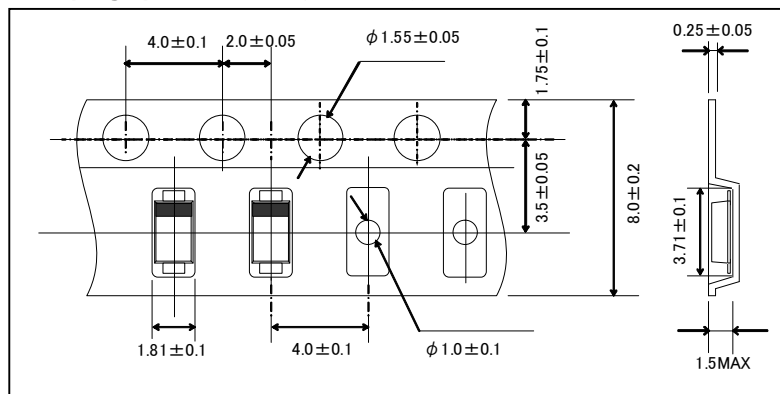
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



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

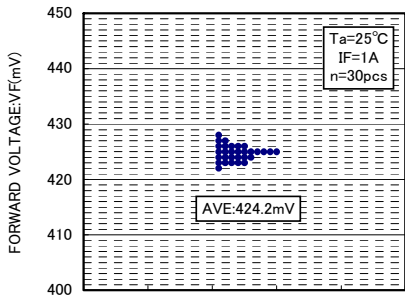
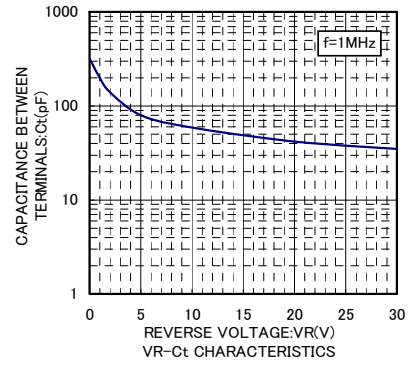
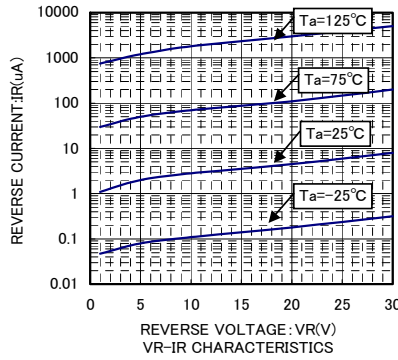
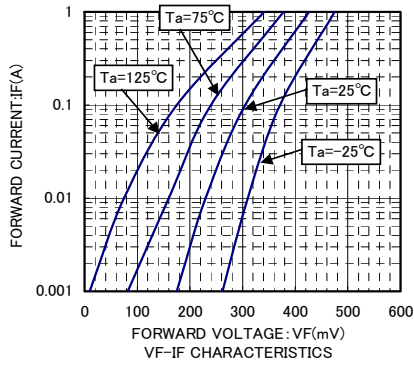
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz / 1cyc)	I_{FSM}	30	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

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

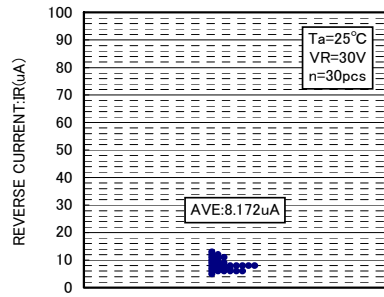
● **Electrical characteristic (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.39	0.46	V	$I_F=0.5A$
	V_{F2}	-	0.43	0.48	V	$I_F=1.0A$
Reverse current	I_{R1}	-	3.0	20	μA	$V_R=15V$
	I_{R2}	-	9.0	50	μA	$V_R=30V$

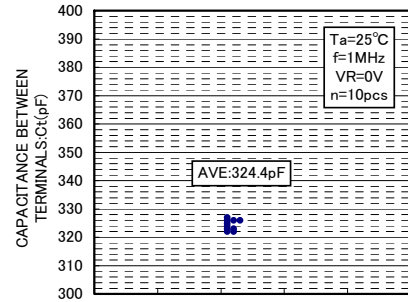
●Electrical characteristic curves



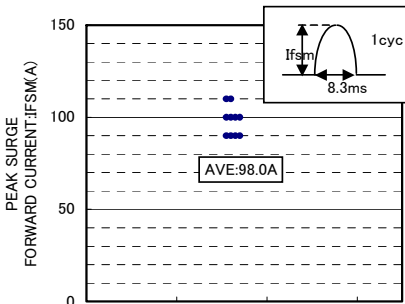
VF DISPERSION MAP



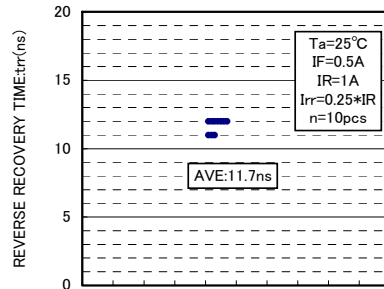
IR DISPERSION MAP



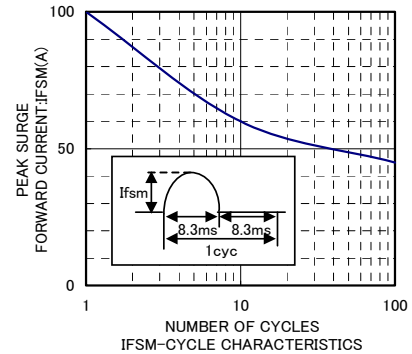
Ct DISPERSION MAP



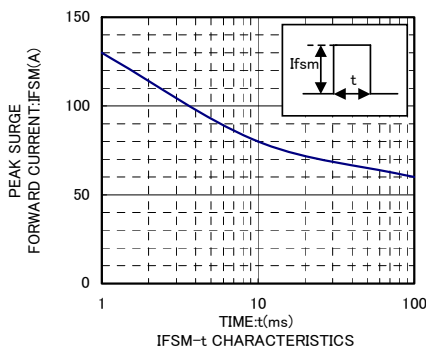
IFSM DISERSION MAP



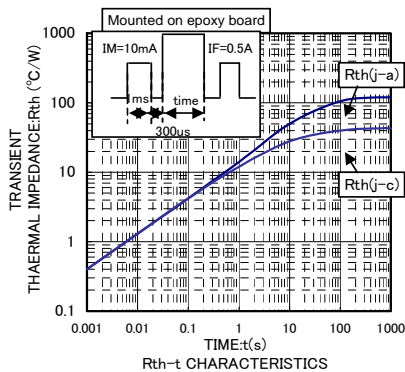
trr DISPERSION MAP



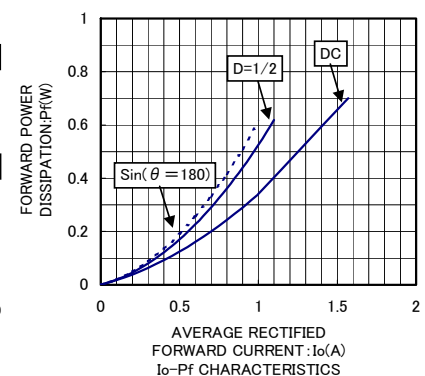
IFSM-CYCLE CHARACTERISTICS



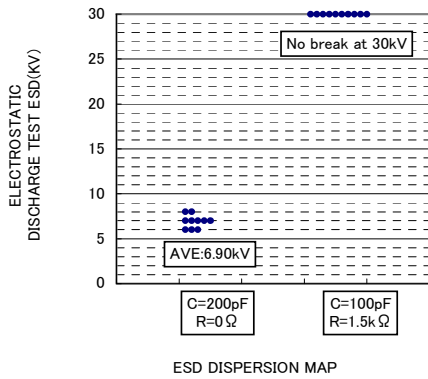
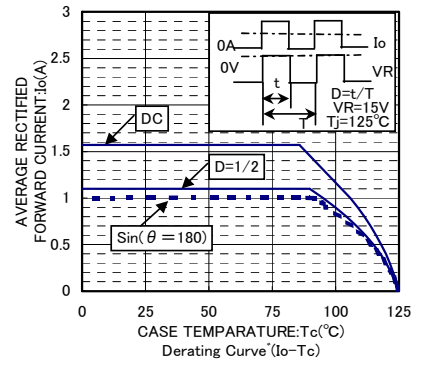
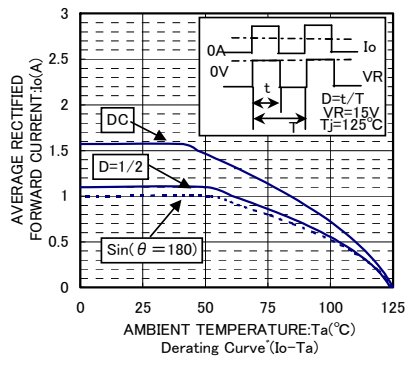
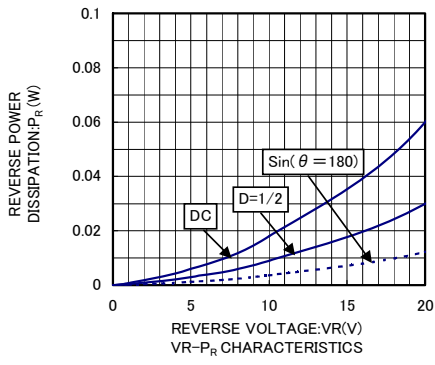
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



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