Schottky barrier diode

RB160M-60

●**Applications**

General rectification

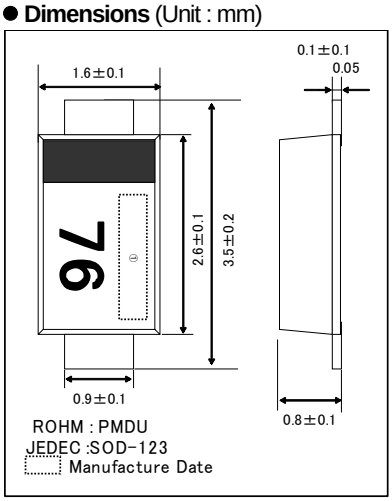
●**Features**

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

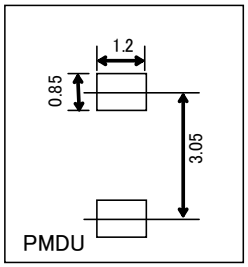
●**Construction**

Silicon epitaxial planar

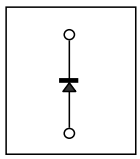
● **Dimensions** (Unit : mm)



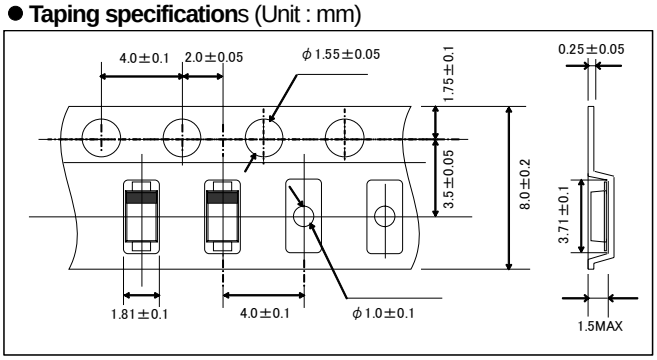
● **Land size figure** (Unit : mm)



●**Structure**



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



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

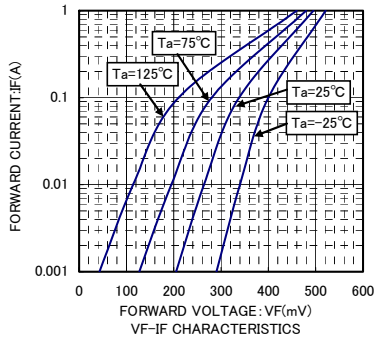
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current	Io	1	A
Forward current surge peak (60Hz・1cyc)	I_{FSM}	30	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-40 to +150	℃

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

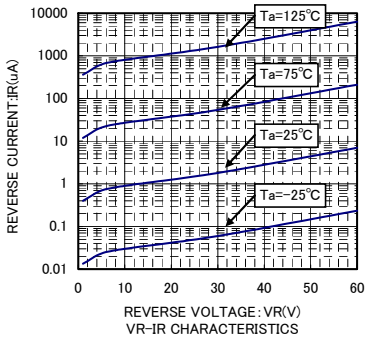
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.49	0.55	V	I_F=1.0A
Reverse current	I_R	-	7.0	50	μA	V_R=60V
Capacitance terminals	Ct	-	40	-	pF	V_R=10V , f=1MHz

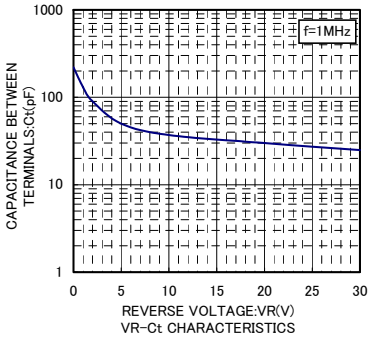
●**Electrical characteristic curves** (Ta=25°C)



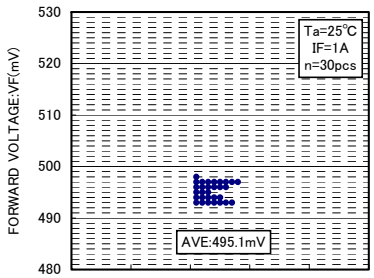
VF-IF CHARACTERISTICS



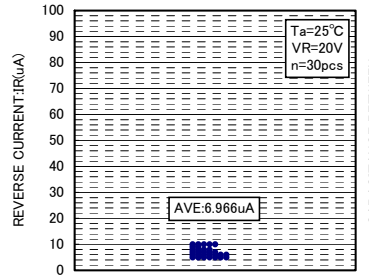
VR-IR CHARACTERISTICS



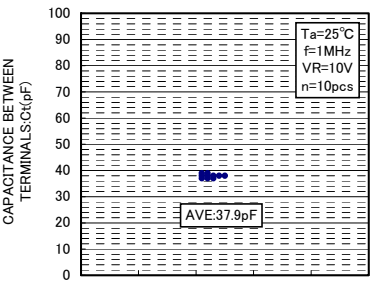
VR-Ct CHARACTERISTICS



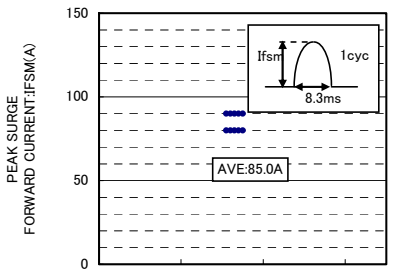
VF DISPERSION MAP



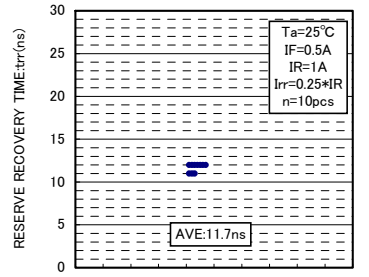
IR DISPERSION MAP



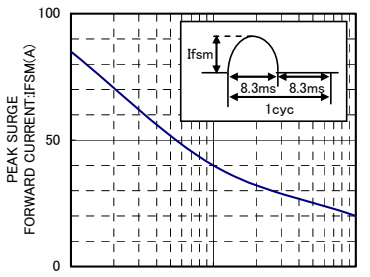
Ct DISPERSION MAP



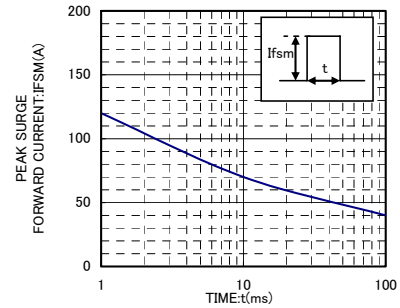
IFSM DISRESION MAP



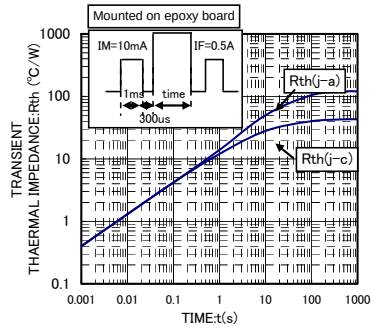
trr DISPERSION MAP



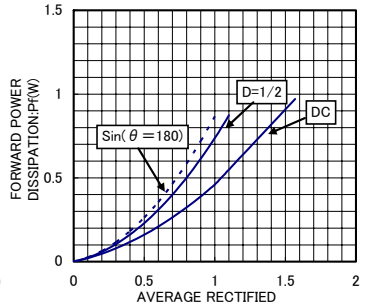
IFSM-CYCLE CHARACTERISTICS



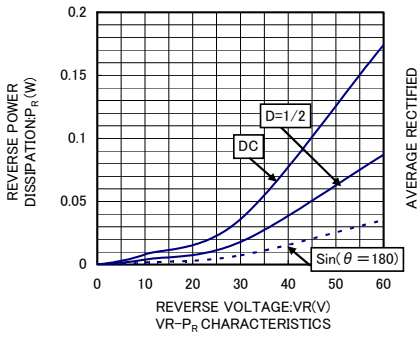
IFSM-t CHARACTERISTICS

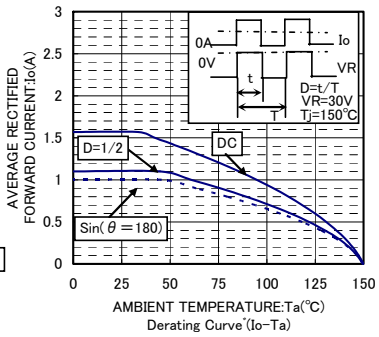


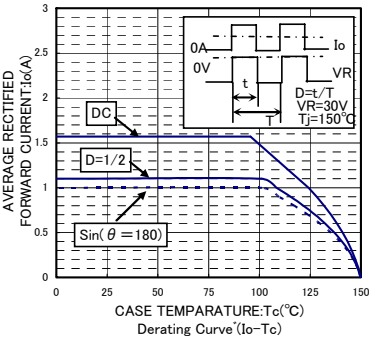
Rth-t CHARACTERISTICS

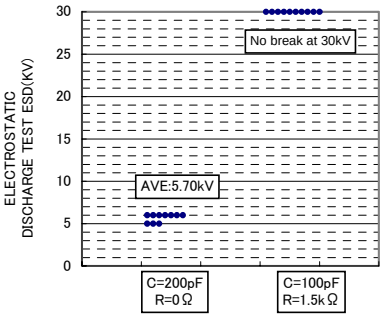


Io-Pf CHARACTERISTICS









ESD DISPERSION MAP

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