

# Schottky Barrier Diode

## RB160M-60

●Applications

General rectification

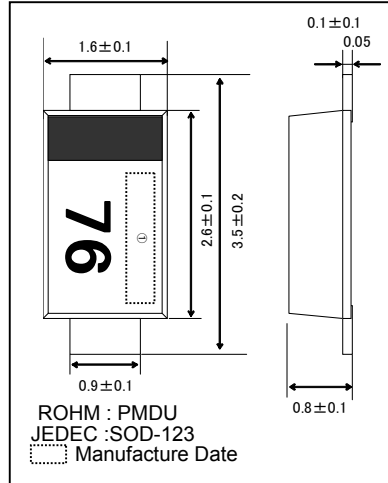
●Features

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

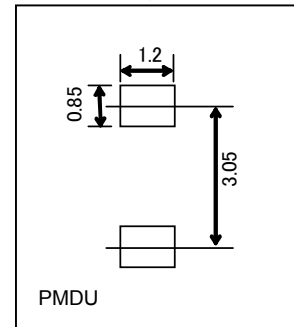
●Construction

Silicon epitaxial planar

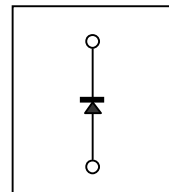
●Dimensions (Unit : mm)



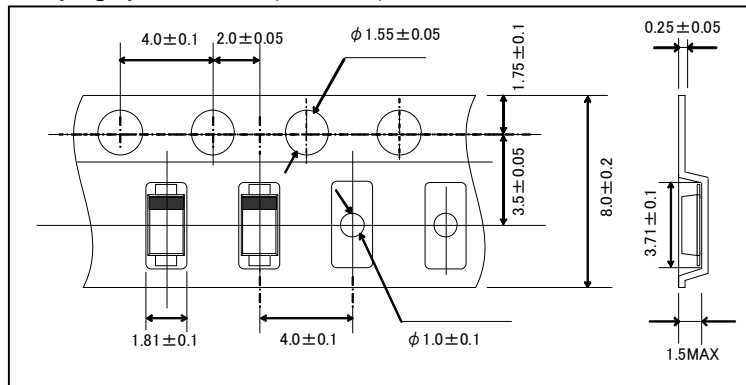
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



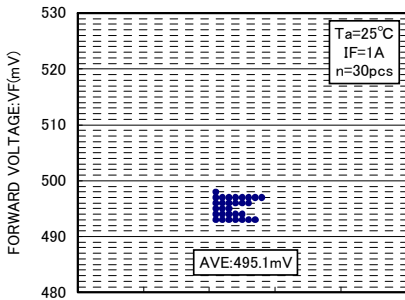
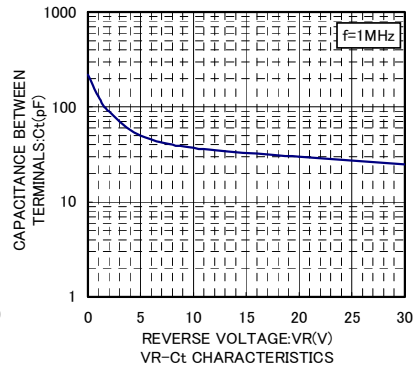
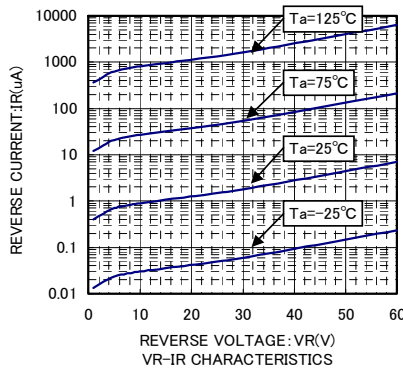
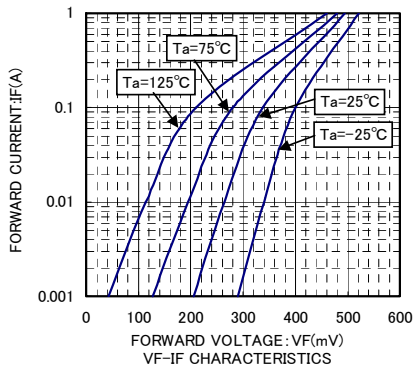
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	60	V
Reverse voltage (DC)	$V_R$	60	V
Average rectified forward current	$I_o$	1	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	30	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

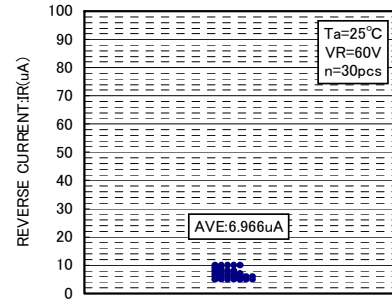
(\*1) Mounting on epoxy board. 180° Half sine wave

●Electrical characteristic (Ta=25°C)

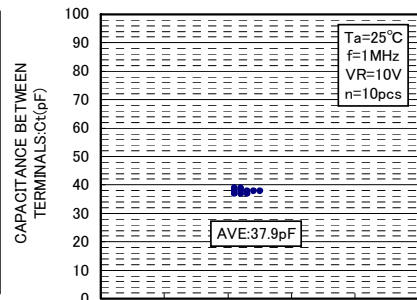
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.49	0.55	V	$I_F=1.0A$
Reverse current	$I_R$	-	7.0	50	μA	$V_R=60V$
Capacitance between terminals	$C_t$	-	40	-	pF	$V_R=10V, f=1MHz$



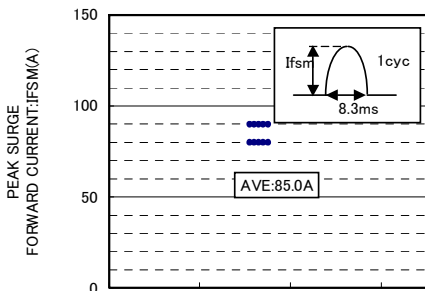
VF DISPERSION MAP



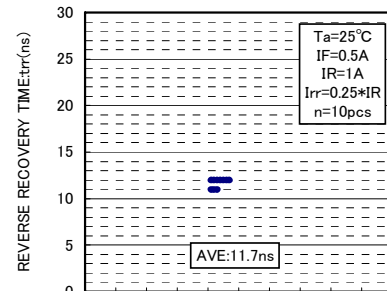
IR DISPERSION MAP



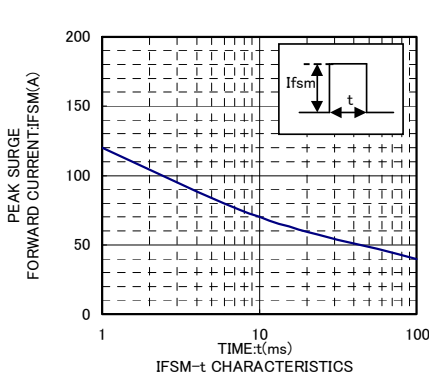
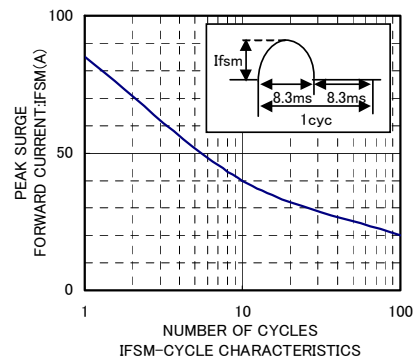
Ct DISPERSION MAP



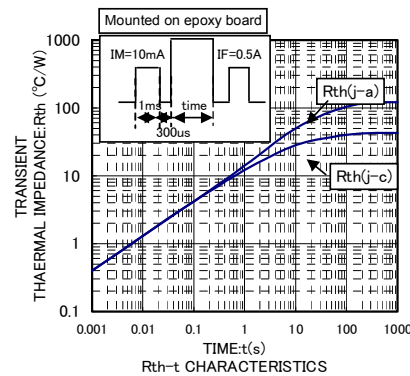
IFSM DISERSION MAP



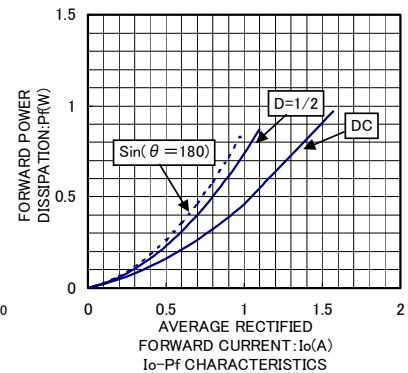
trr DISPERSION MAP



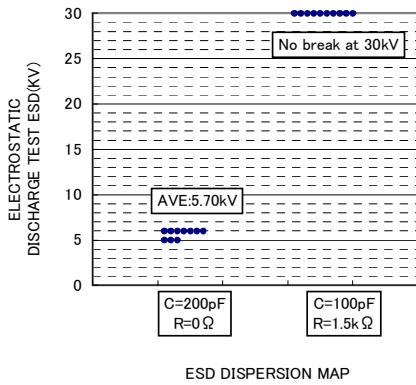
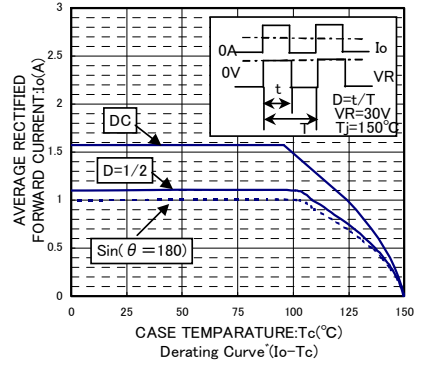
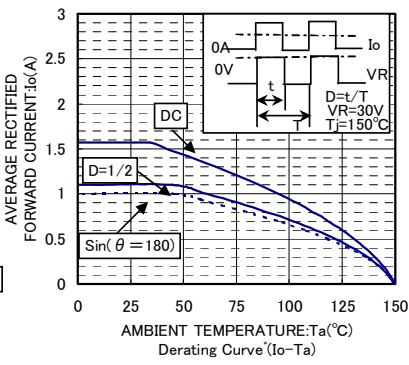
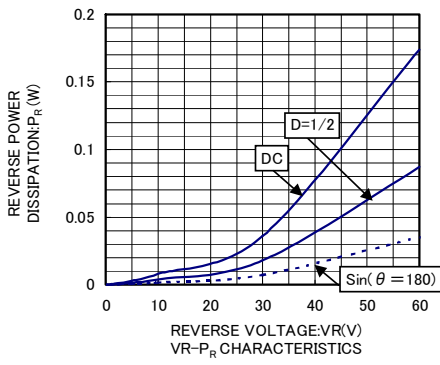
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



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