

## Schottky barrier diode

## RB160M-40

## ●Applications

General rectification

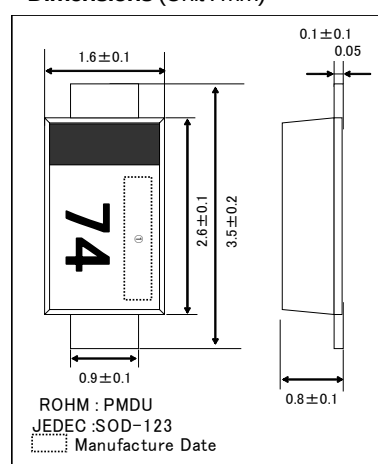
## ●Features

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

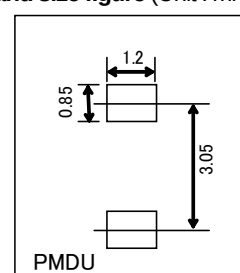
## ●Construction

Silicon epitaxial planar

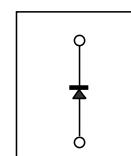
## ●Dimensions (Unit : mm)



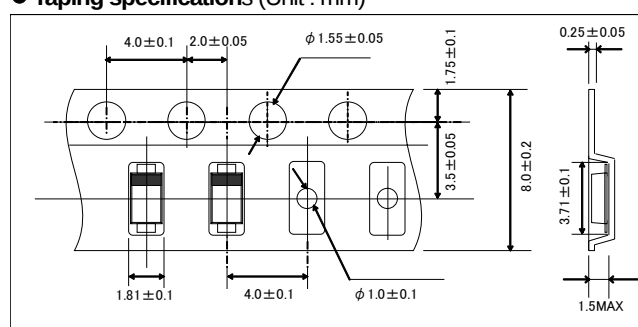
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping specifications (Unit : mm)

●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

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

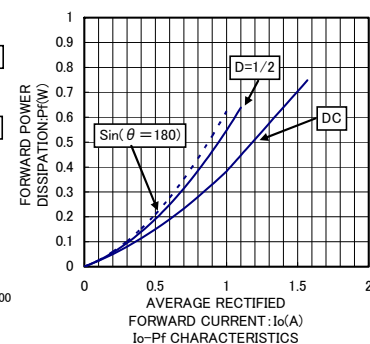
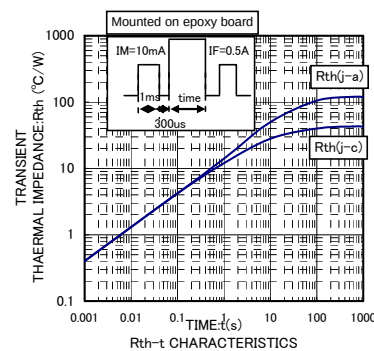
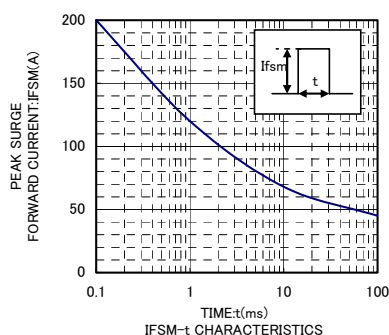
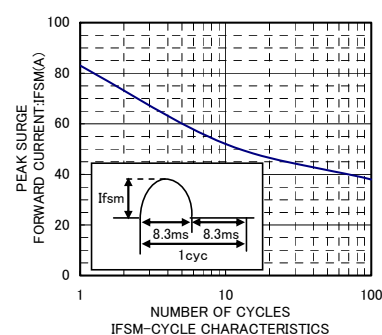
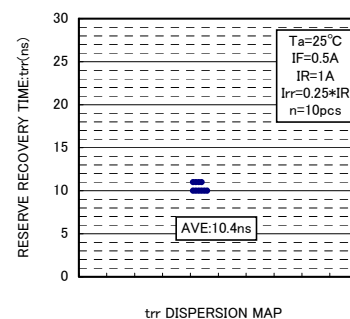
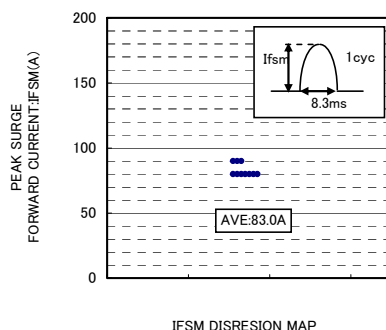
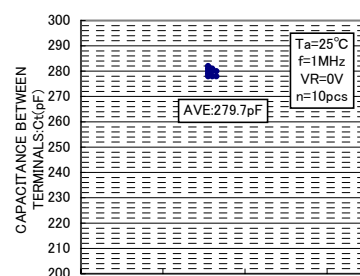
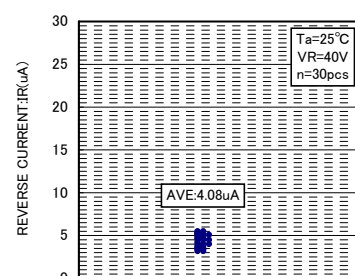
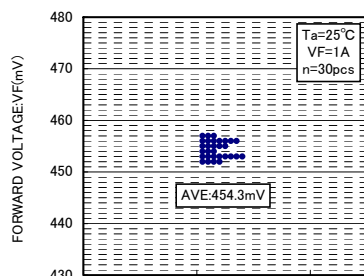
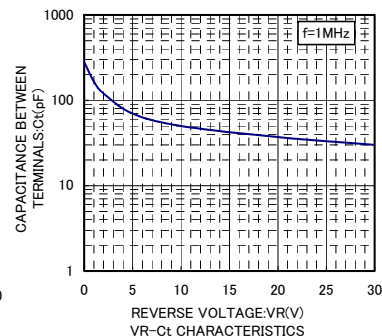
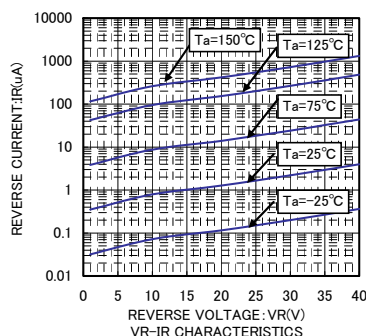
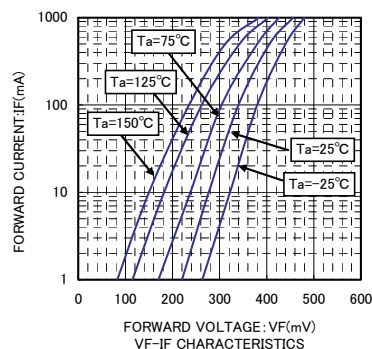
(\*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics ( $T_a=25^\circ\text{C}$ )

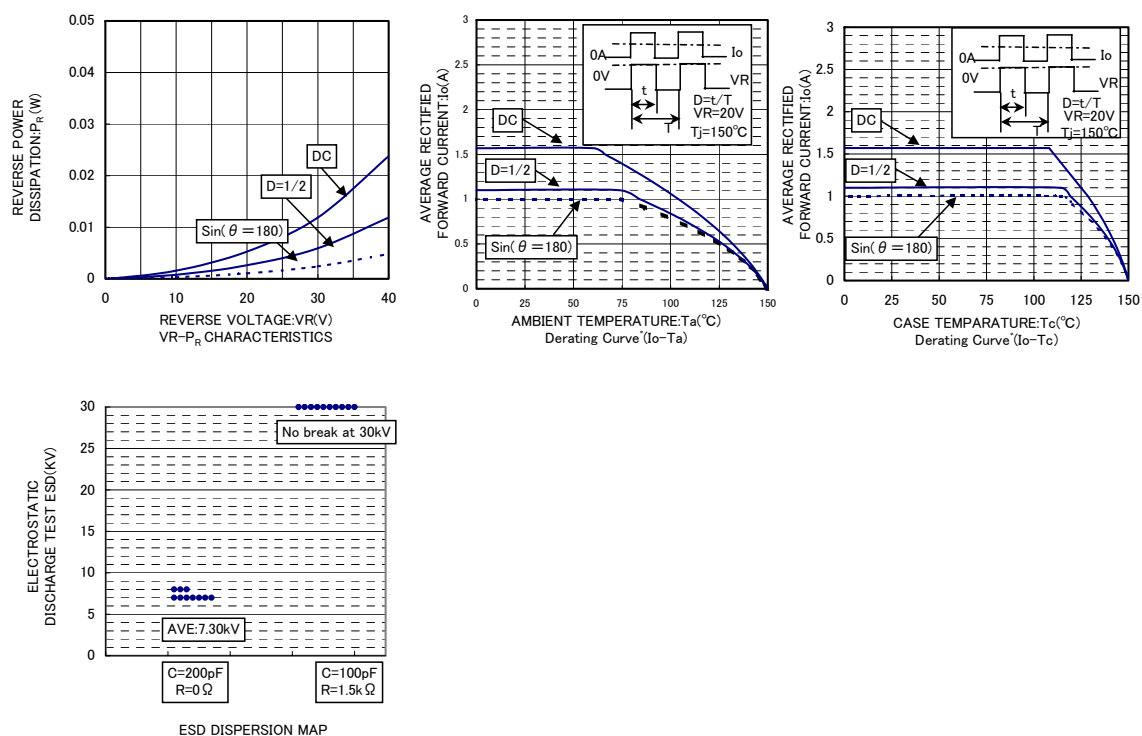
| Parameter       | Symbol | Min. | Typ. | Max. | Unit          | Conditions        |
|-----------------|--------|------|------|------|---------------|-------------------|
| Forward voltage | $V_F$  | -    | 0.46 | 0.51 | V             | $I_F=1.0\text{A}$ |
| Reverse current | $I_R$  | -    | 4.0  | 30   | $\mu\text{A}$ | $V_R=40\text{V}$  |

## Diodes

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



## Diodes



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