

# Shottky barrier diode

## RB160M-60

### ●Application

General rectification.

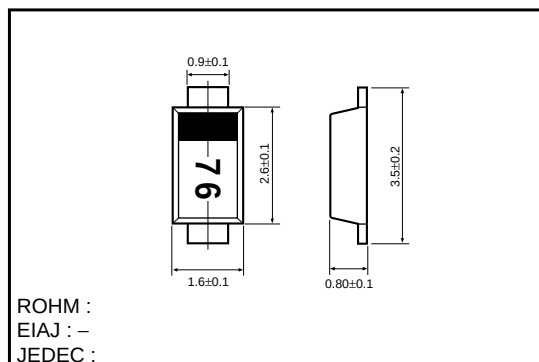
### ●Features

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

### ●Structure

Silicon Epitaxial Planer

### ●External dimensions (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         | $I_O$     | 1.0        | 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   |

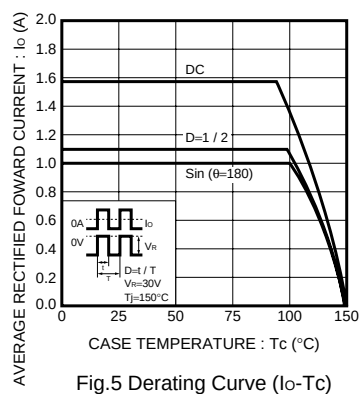
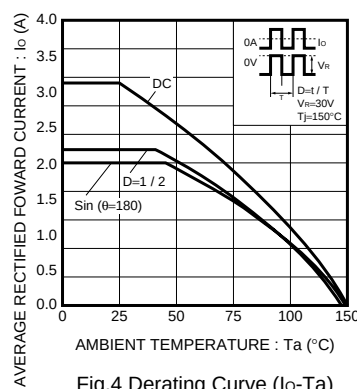
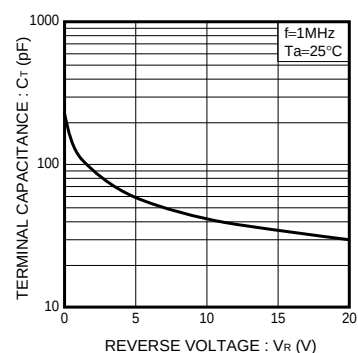
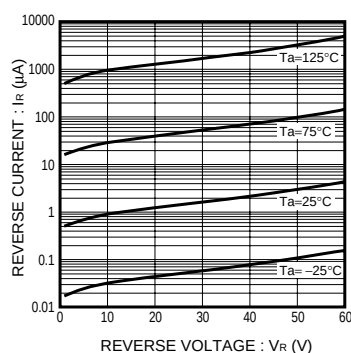
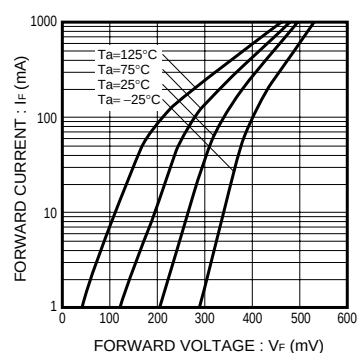
\*Glass epoxy substrate at the time of assembler, half sine wave at 180.

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

| Parameter       | Symbol   | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------|------|------|------|------|------------|
| Forward voltage | $V_{F1}$ | –    | 0.54 | 0.58 | V    | $I_F=1.0A$ |
| Reverse current | $I_R$    | –    | 3.0  | 30   | μA   | $V_R=60V$  |

## Diodes

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



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