

# Schottky Barrier Diode

## RBQ10B65A

### ●Applications

General rectification

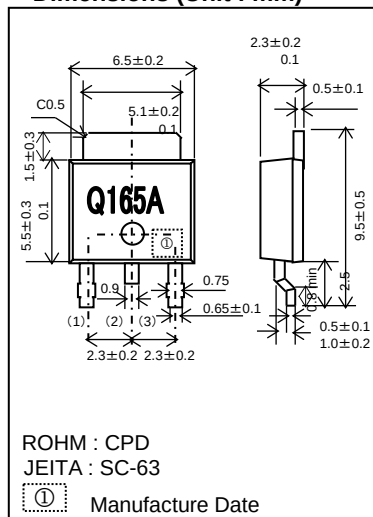
### ●Features

- 1) Power mold type. (CPD)
- 2) Low  $I_R$
- 3) High reliability

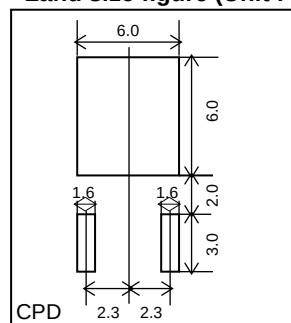
### ●Construction

Silicon epitaxial planer

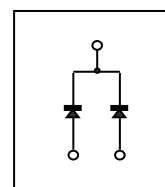
### ●Dimensions (Unit : mm)



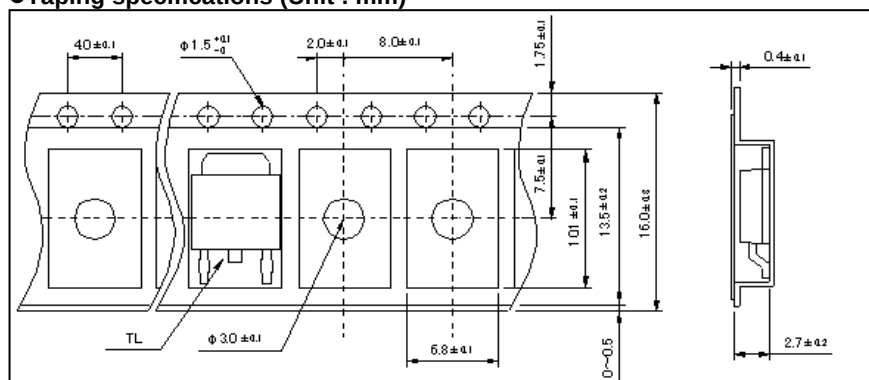
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●Absolute maximum ratings (Tc=25°C)

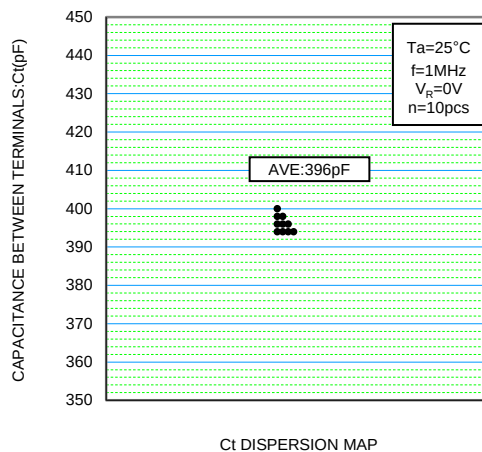
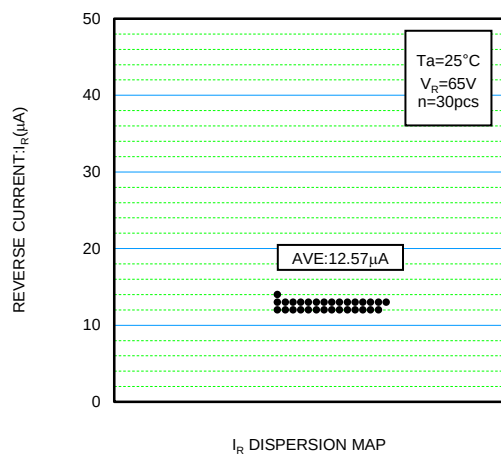
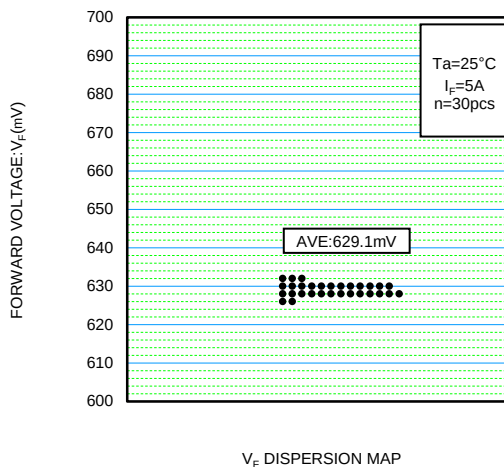
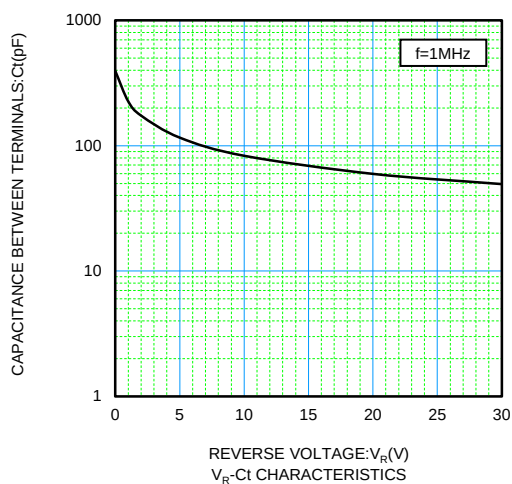
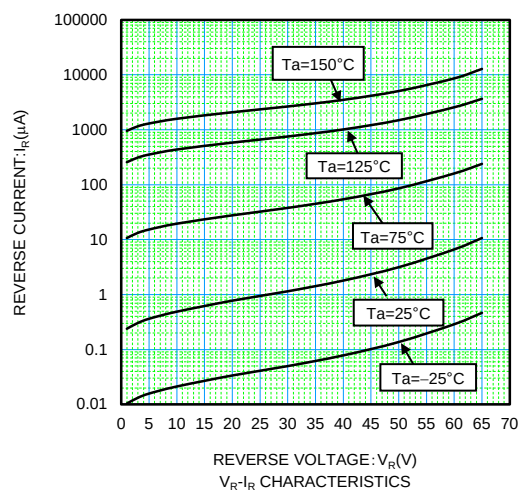
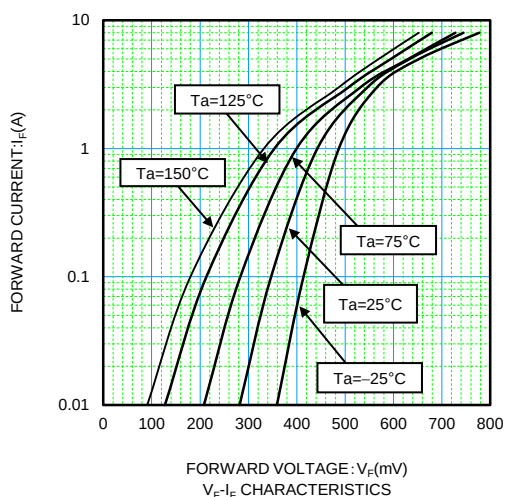
| Parameter                                   | Symbol    | Limits      | Unit |
|---------------------------------------------|-----------|-------------|------|
| Reverse voltage (repetitive peak)           | $V_{RM}$  | 65          | V    |
| Reverse voltage (DC)                        | $V_R$     | 65          | V    |
| Average rectified forward current (*1)      | $I_O$     | 10          | A    |
| Forward current surge peak (60Hz·1cyc) (*2) | $I_{FSM}$ | 50          | A    |
| Junction temperature                        | $T_J$     | 150         | °C   |
| Storage temperature                         | $T_{stg}$ | -40 to +150 | °C   |

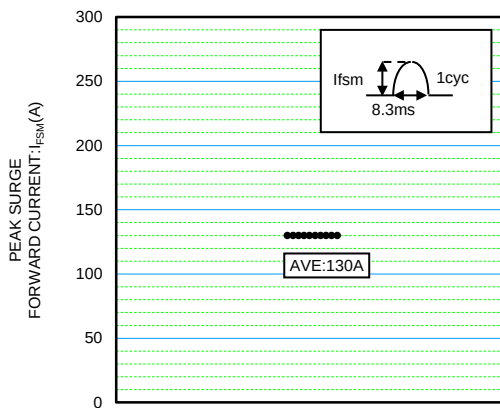
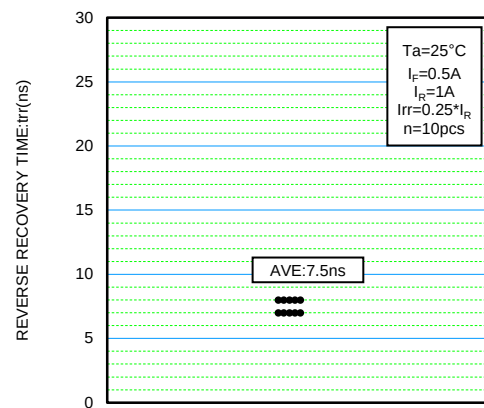
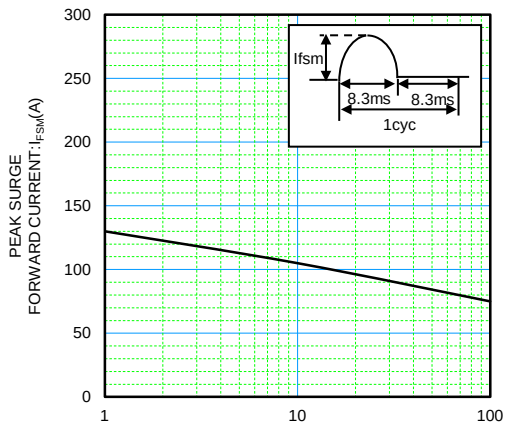
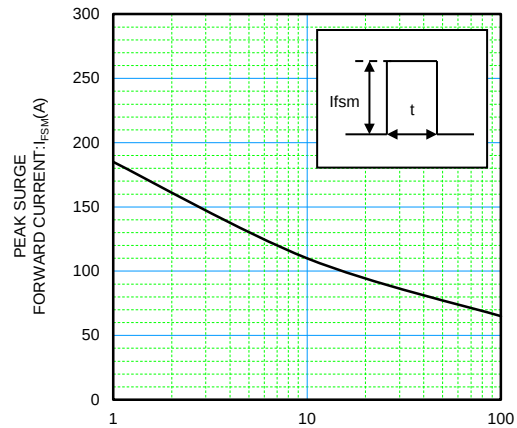
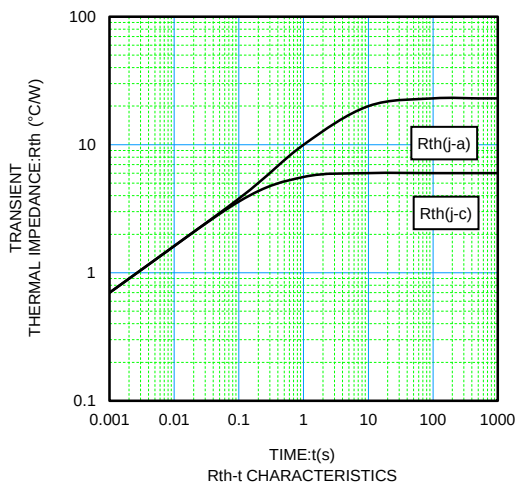
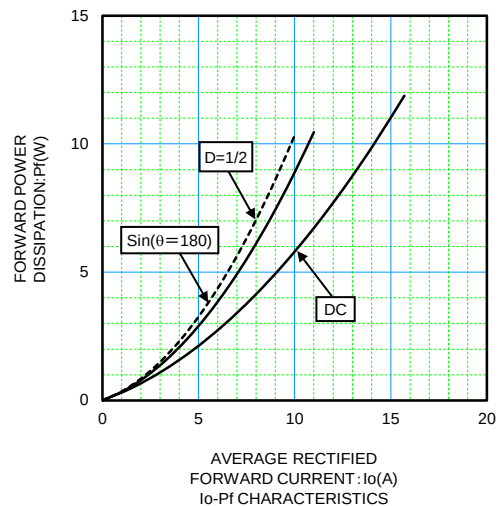
(\*1) Business frequencies, 1/2  $I_O$  per diode.

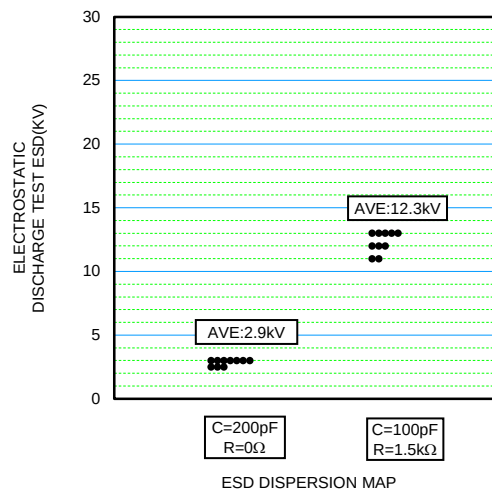
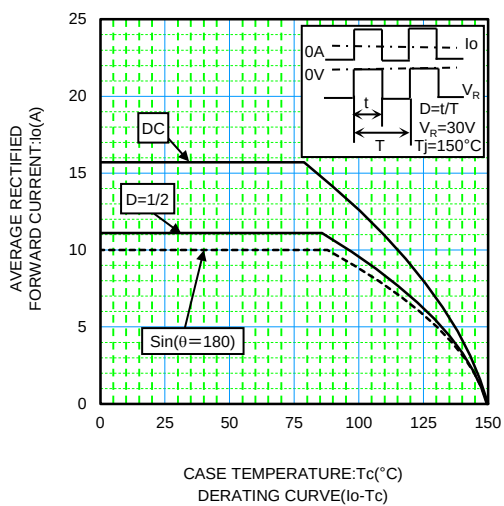
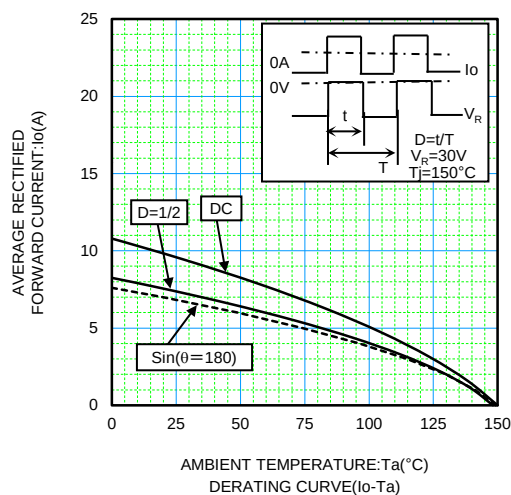
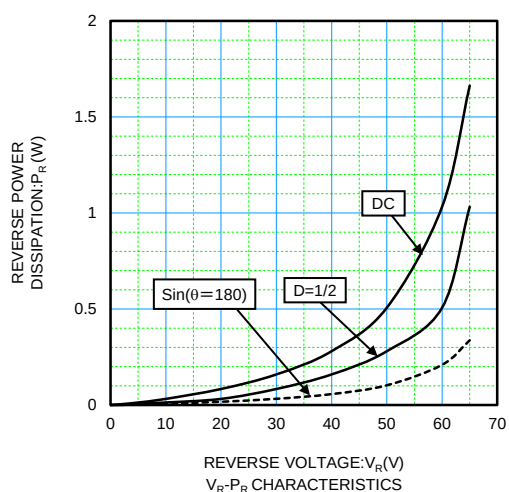
(\*2) Per diode.

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

| Parameter       | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|------|------------|
| Forward voltage | $V_F$  | -    | -    | 0.69 | V    | $I_F=5A$   |
| Reverse current | $I_R$  | -    | -    | 0.15 | mA   | $V_R=65V$  |



 $I_{FSM}$  DISPERSION MAP $trr$  DISPERSION MAP $I_{FSM}$  CYCLE CHARACTERISTICS $I_{FSM}$ - $t$  CHARACTERISTICS $R_{th}$ - $t$  CHARACTERISTICS $I_o$ - $P$  CHARACTERISTICS



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