



**FUKUCOM COMPANY LTD.**

**福 靈 有 限 公 司**

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

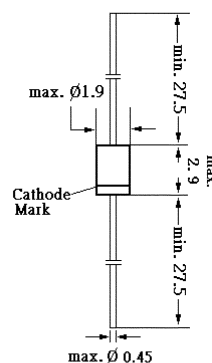
TEL: 852-2790 0314 FAX: 852-2790 0206

## RB441Q-40

### SILICON EPITAXIAL PLANAR TYPE SCHOTTKY BARRIER DIODES For Low Current Rectification

#### Features

- Low forward rise voltage ( $V_F$ )
- Small pitch enables insertion on PCBs.
- Glass sealed envelope for high reliability. (MSD)



Glass case JEDEC DO-34  
Dimensions in mm

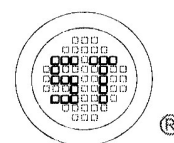
#### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

| Parameter                  | Symbol    | Rating      | Unit             |
|----------------------------|-----------|-------------|------------------|
| Reverse Voltage (DC)       | $V_R$     | 40          | V                |
| Peak Reverse Voltage       | $V_{RM}$  | 40          | V                |
| Mean Rectifying Current    | $I_O$     | 100         | mA               |
| Peak Forward Surge Current | $I_{FSM}$ | 1000        | mA               |
| Junction Temperature       | $T_J$     | 125         | $^\circ\text{C}$ |
| Storage Temperature Range  | $T_S$     | -40 to +125 | $^\circ\text{C}$ |

#### Characteristics at $T_a = 25^\circ\text{C}$

| Parameter            | Symbol   | Conditions                             | Min | Typ | Max  | Unit          |
|----------------------|----------|----------------------------------------|-----|-----|------|---------------|
| Forward Voltage      | $V_{F1}$ | $I_F = 10\text{mA}$                    | -   | -   | 0.34 | V             |
|                      | $V_{F2}$ | $I_F = 100\text{mA}$                   | -   | -   | 0.55 |               |
| Reverse Current      | $I_R$    | $V_R = 40\text{V}$                     | -   | -   | 100  | $\mu\text{A}$ |
| Terminal Capacitance | $C_t$    | $V_R = 10\text{V}$ , $f = 1\text{MHz}$ | -   | 6.0 | -    | pF            |

Note: ESD sensitive product handling required.



**SEMTECH**

Dated : 22/02/2003



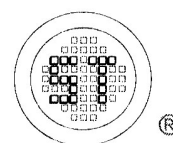
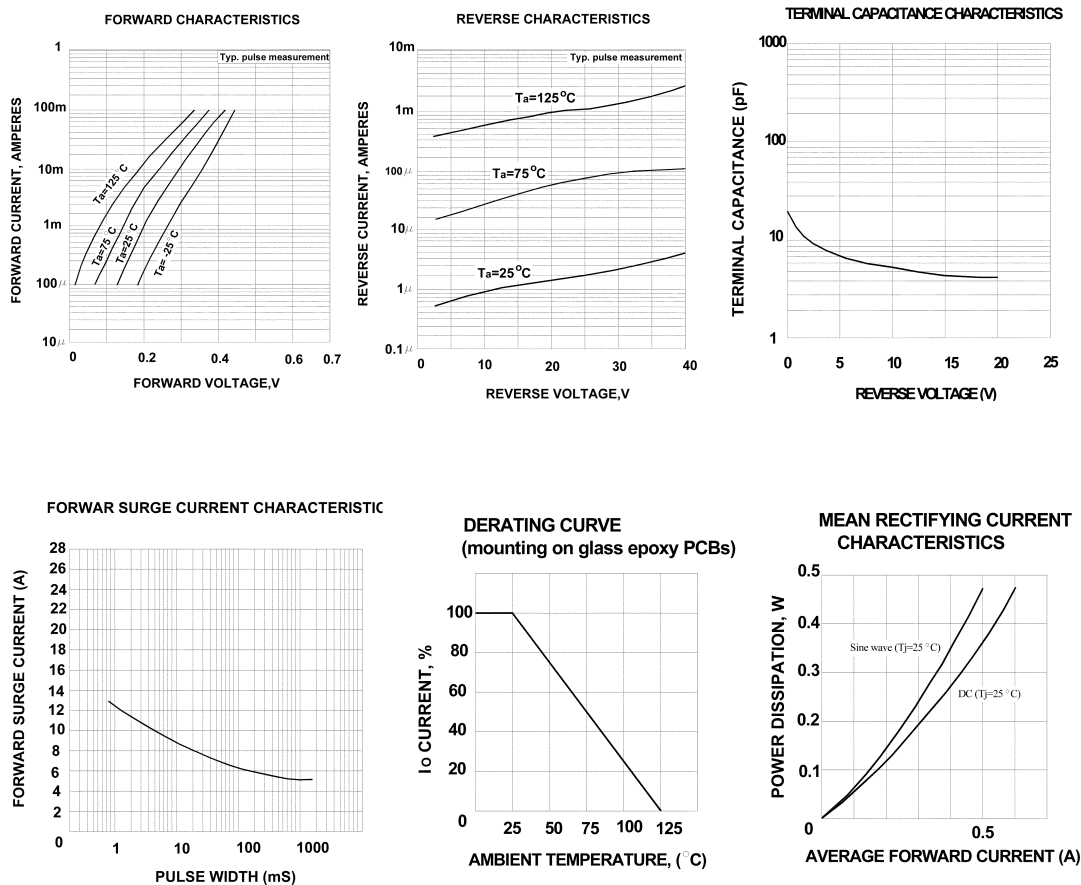
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