

# Schottky barrier diode

## RB441Q-40

### ● Applications

Low current rectification

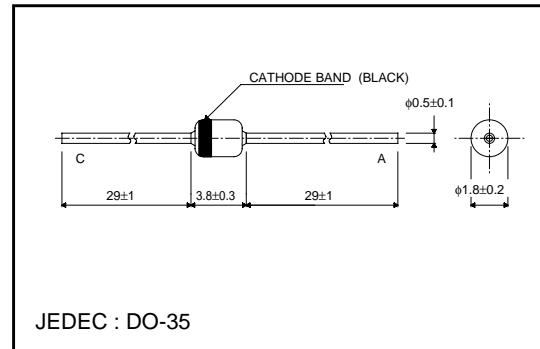
### ● Features

- 1) Glass sealed envelope for high reliability. (MSD)
- 2) Small pitch enables insertion on PCBs.
- 3) Low  $V_F$ . ( $V_F=0.45V$  Typ. at 100mA)

### ● Construction

Silicon epitaxial planar

### ● External dimensions (Units : mm)



### ● Absolute maximum ratings ( $T_a = 25^\circ C$ )

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	40	V
DC reverse voltage	$V_R$	40	V
Mean rectifying current	$I_o$	0.1	A
Peak forward surge current	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	$^\circ C$
Storage temperature	$T_{stg}$	-40~+125	$^\circ C$

### ● Electrical characteristics ( $T_a = 25^\circ C$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	—	—	0.34	V	$I_F=10mA$
Forward voltage	$V_{F2}$	—	—	0.55	V	$I_F=100mA$
Reverse current	$I_R$	—	—	100	$\mu A$	$V_R=40V$
Capacitance between terminals	$C_T$	—	6.0	—	pF	$V_R=10V, f=1MHz$

Note) ESD sensitive product handling required.

## Diodes

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