

# Schottky barrier diode

## RB441Q-40

### ● Applications

Low current rectification

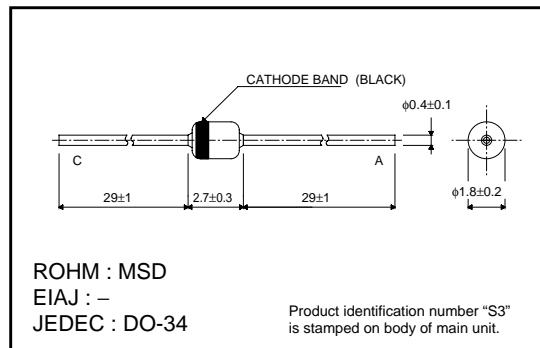
### ● Features

- 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 ( $T_a = 25^\circ\text{C}$ )

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	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40~+125	$^\circ\text{C}$

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

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

Note) ESD sensitive product handling required.

## Diodes

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