

## RB441Q-40

**PRV : 40 Volts**  
**I<sub>o</sub> : 100 mA**

### FEATURES :

- \* Silicon epitaxial planar
- \* Low forward voltage
- \* Small pitch enables insertion on PCBs.
- \* Glass sealed envelop for high reliability
- \* **Pb / RoHS Free**

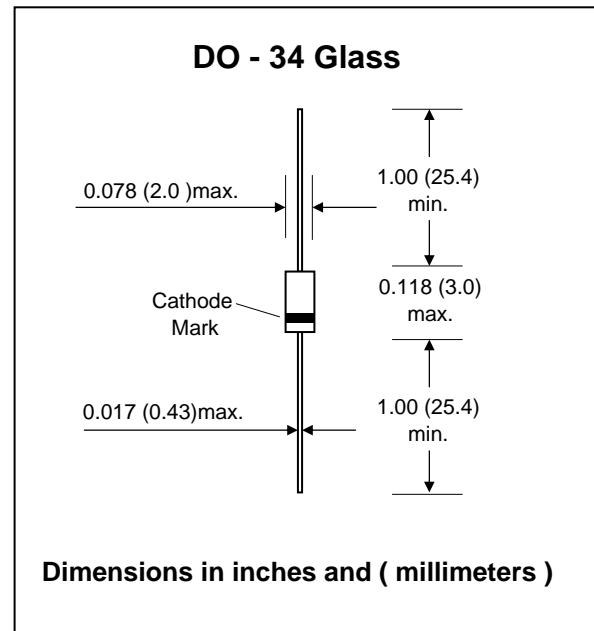
### APPLICATIONS :

- \* Low current rectification

### MECHANICAL DATA :

- \* **Case:** DO-34 Glass Case
- \* **Weight:** approx. 0.11g

## SCHOTTKY BARRIER DIODE



### Maximum Ratings and Thermal Characteristics (T<sub>a</sub> = 25 °C)

Parameter	Symbol	VALUE	Unit
Maximum DC Reverse Voltage	V <sub>R</sub>	40	V
Maximum Peak Reverse Voltage	V <sub>RM</sub>	40	V
Maximum Forward Current	I <sub>F</sub>	100	mA
Maximum Peak Forward Surge Current	I <sub>FSM</sub>	1.0	A
Junction Temperature	T <sub>J</sub>	125	°C
Storage temperature range	T <sub>STG</sub>	-40 to + 125	°C

### Electrical Characteristics (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 40 V	-	-	100	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA	-	-	0.34	V
		I <sub>F</sub> = 100 mA	-	-	0.55	V
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> = 10 V, f = 1MHz	-	6.0	-	pF

## RATING AND CHARACTERISTIC CURVES ( RB441Q-40 )

FIG.1 - DERATING CURVE

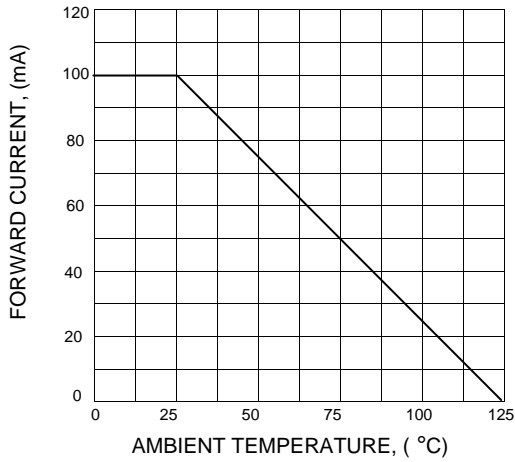


FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

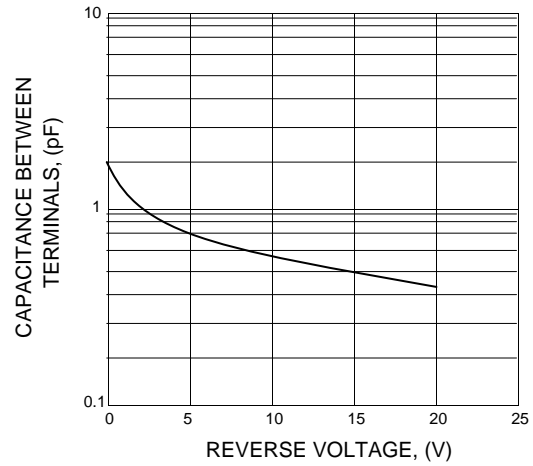


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

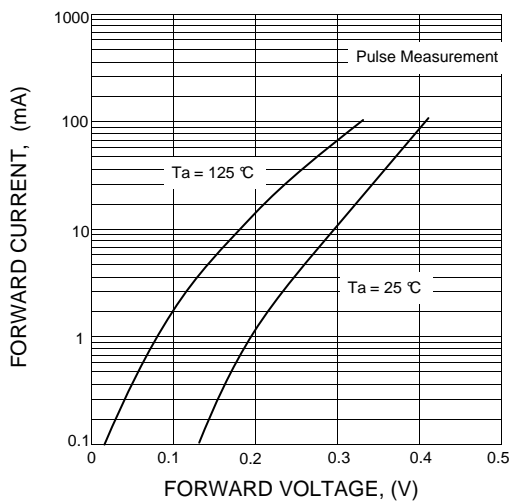


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

