

RB441Q-40

PRV : 40 Volts

I_o : 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 :

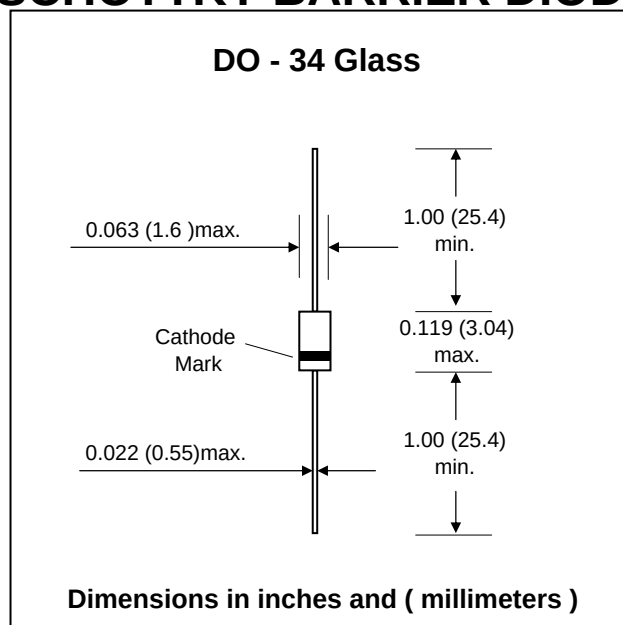
- * Low current rectification

MECHANICAL DATA :

- * **Case:** DO-34 Glass Case

- * **Weight:** approx. 0.11g

SCHOTTKY BARRIER DIODE



Maximum Ratings and Thermal Characteristics (Ta = 25 °C)

Parameter	Symbol	VALUE	Unit
Maximum DC Reverse Voltage	V_R	40	V
Maximum Peak Reverse Voltage	V_{RM}	40	V
Maximum Forward Current	I_F	100	mA
Maximum Peak Forward Surge Current	I_{FSM}	1.0	A
Junction Temperature	T_J	125	°C
Storage temperature range	T_{STG}	-40 to + 125	°C

Electrical Characteristics (Ta = 25 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I_R	$V_R = 40$ V	-	-	100	μA
Forward Voltage	V_F	$I_F = 10$ mA	-	-	0.34	V
		$I_F = 100$ mA	-	-	0.55	V
Capacitance between terminals	C_T	$V_R = 10$ V, $f = 1$ MHz	-	6.0	-	pF

RATING AND CHARACTERISTIC CURVES (RB441Q-40)

FIG.1 - DERATING CURVE

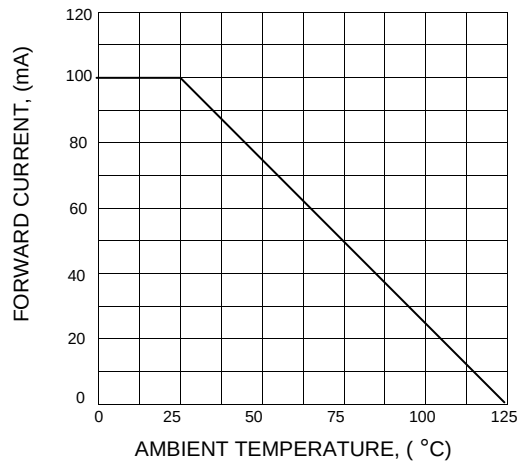


FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

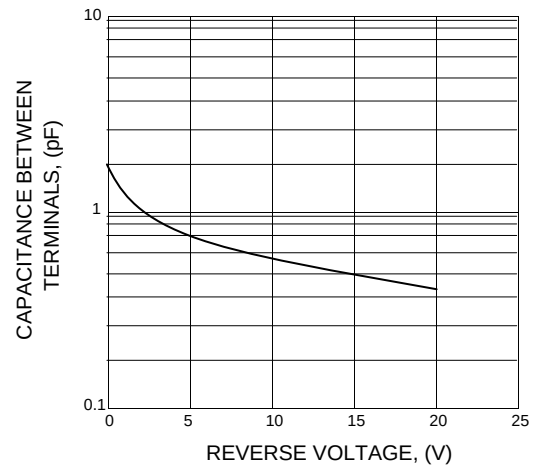


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

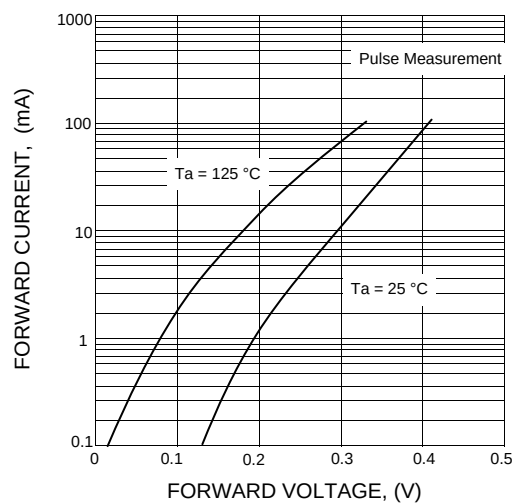


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

