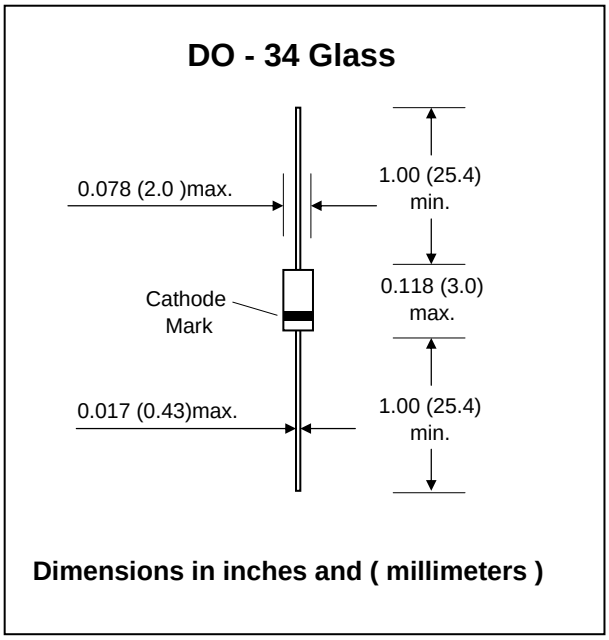
RB441Q-40

SCHOTTKY BARRIER DIODE

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

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 (T_a = 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
	V_F	I_F = 100 mA	-	-	0.55	V
Capacitance between terminals	C_T	V_R = 10 V, f = 1MHz	-	6.0	-	pF

Downloaded from Arrow.com.

RATING AND CHARACTERISTIC CURVES (RB441Q-40)

FIG.1 - DERATING CURVE

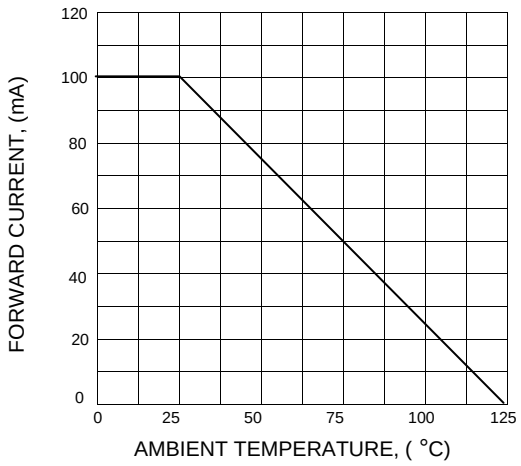


FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

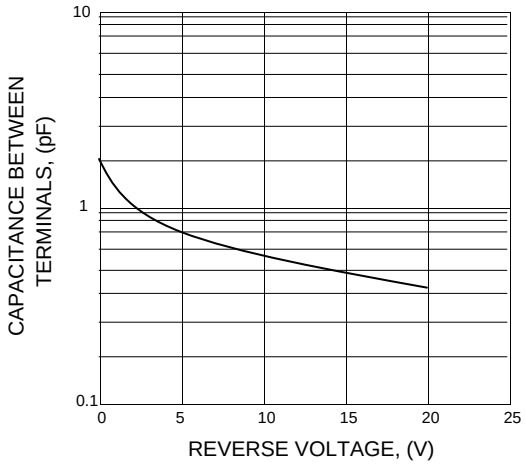


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

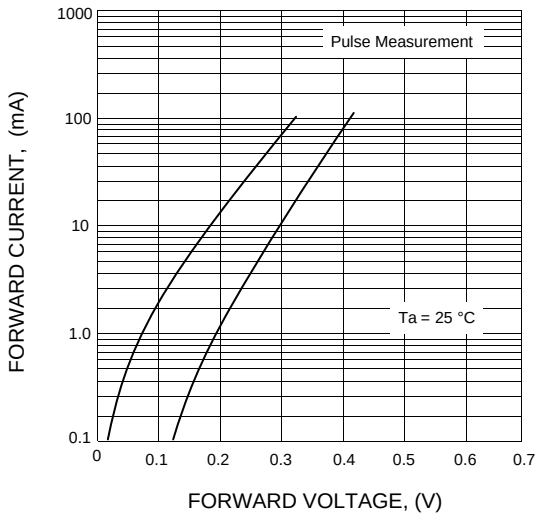
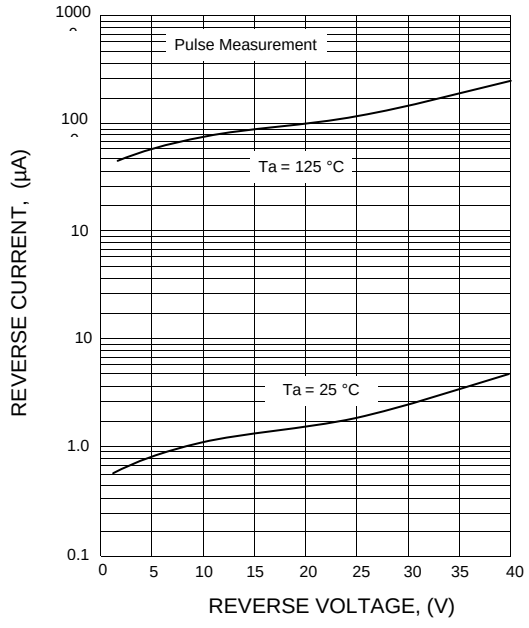


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



Downloaded from Arrow.com.