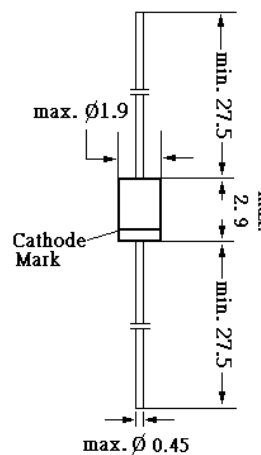


# RB441Q-40

## SILICON EPITAXIAL PLANAR TYPE SCHOTTKY BARRIER DIODES For Low Current Rectification

### Features

- Low forward rise voltage ( $V_F$ )
- Small pitch enables insertion on PCBs.
- Glass sealed envelope for high reliability. (MSD)



Glass case JEDEC DO-34  
Dimensions in mm

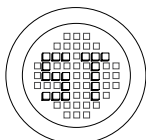
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Rating	Unit
Reverse Voltage (DC)	$V_R$	40	V
Peak Reverse Voltage	$V_{RM}$	40	V
Mean Rectifying Current	$I_O$	100	mA
Peak Forward Surge Current	$I_{FSM}$	1000	mA
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_S$	-40 to +125	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	$V_{F1}$	$I_F = 10\text{mA}$	-	-	0.34	V
	$V_{F2}$	$I_F = 100\text{mA}$	-	-	0.55	
Reverse Current	$I_R$	$V_R = 40\text{V}$	-	-	100	$\mu\text{A}$
Terminal Capacitance	$C_t$	$V_R = 10\text{V}, f = 1\text{MHz}$	-	6.0	-	pF

Note: ESD sensitive product handling required.



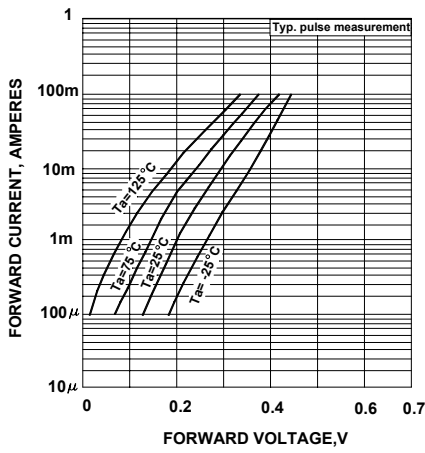
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**РАДИОТЕХ**

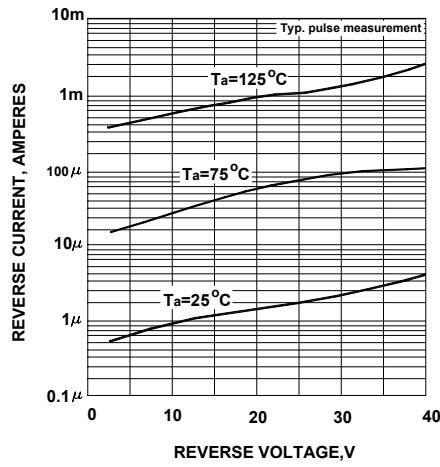
Тел.: (495) 795-0805  
Факс: (495) 234-1603  
Эл. почта: info@rct.ru  
Веб: www.rct.ru

# RB441Q-40

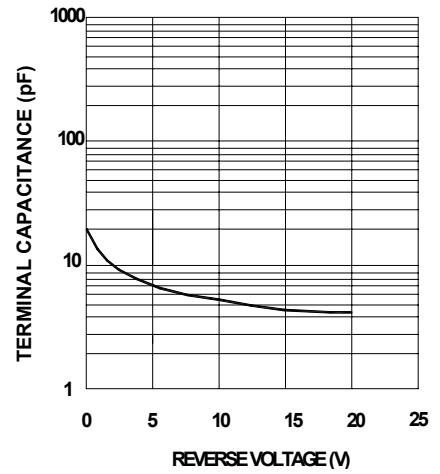
FORWARD CHARACTERISTICS



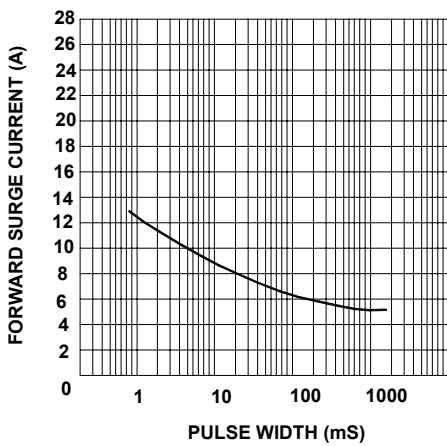
REVERSE CHARACTERISTICS



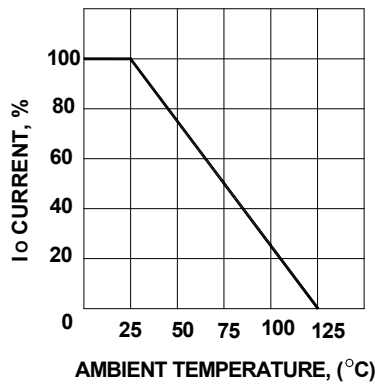
TERMINAL CAPACITANCE CHARACTERISTICS



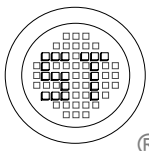
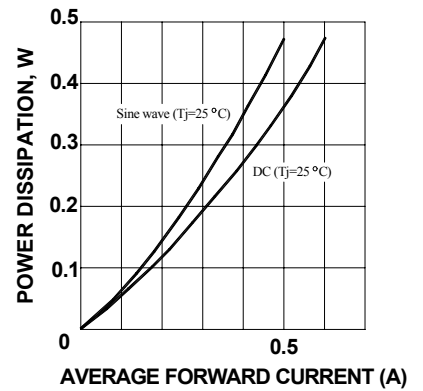
FORWARD SURGE CURRENT CHARACTERISTIC



DERATING CURVE (mounting on glass epoxy PCBs)

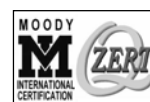


MEAN RECTIFYING CURRENT CHARACTERISTICS



## SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 050-1559-04-002-04