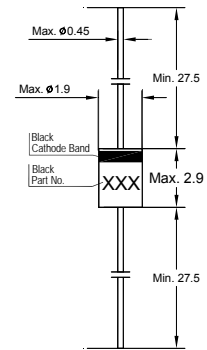


# SB721Q-40

## Silicon Epitaxial Planar Schottky Barrier Diode

### Applications

- High speed switching



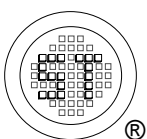
Glass Case DO-34  
Dimensions in mm

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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	V
Reverse Voltage	$V_R$	40	V
Mean Rectifying Current	$I_O$	30	mA
Peak Forward Surge Current	$I_{FSM}$	200	mA
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 40 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$	$V_F$	-	-	0.37	V
Reverse Current at $V_R = 25\text{ V}$	$I_R$	-	-	0.5	$\mu\text{A}$
Reverse Voltage at $I_R = 10\text{ }\mu\text{A}$	$V_R$	40	-	-	V
Capacitance between Terminals at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	-	2	-	pF



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Dated : 25/06/2007

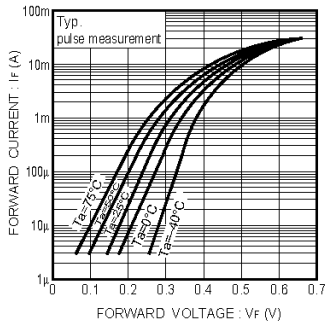


Fig.1 Forward characteristics

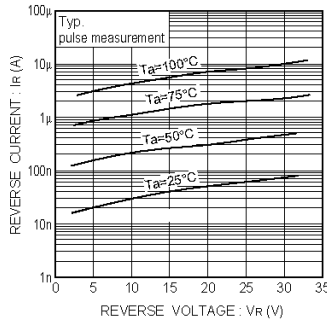


Fig.2 Reverse characteristics

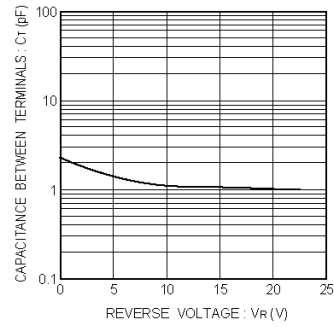


Fig.3 Capacitance between terminals characteristics

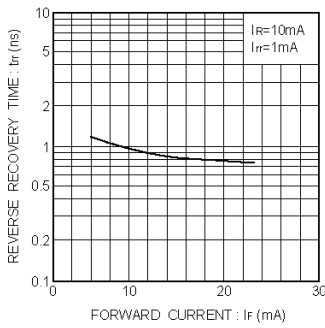


Fig.4 Reverse recovery time characteristics

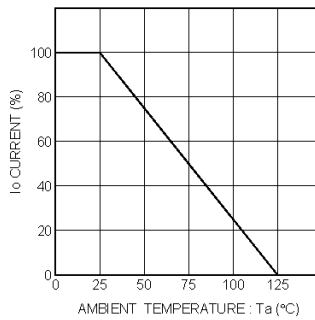
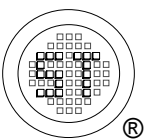


Fig.5 Derating curve (mounting on glass epoxy PCBs)



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