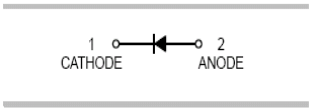
RB751LP3-40

Small Signal Schottky Barrier Diode

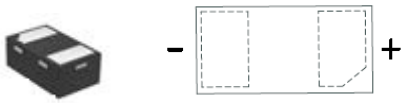
Features

- High reliability
- Small surface mounting type
- Low reverse current and low forward voltage



Application

- Low current rectification



Mechanical Data

- Case: DFN0603-2L
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

DFN0603-2L

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
RB751LP3-40	DFN0603-2L	10000 pcs / Tape & Reel	5

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	41	V
DC Reverse Voltage	V_R	40	V
Maximum Average Forward Output Current	$I_{F(AV)}$	30	mA
Peak Forward Surge Current (8.3ms single half sine-wave)	I_{FSM}	0.5	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	100	mW
Thermal Resistance Junction-to-Air	$R_{\Theta ja}$ *1	1000	°C/W
Operating junction Temperature	T_J	-55 ~ +125	°C
Storage Temperature Range	T_{STG}	-40 ~ +150	°C

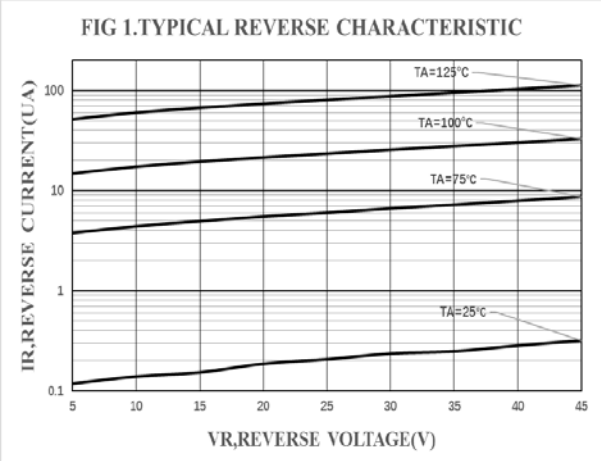
Electrical Characteristics (@ T_A = 25°C unless otherwise specified)

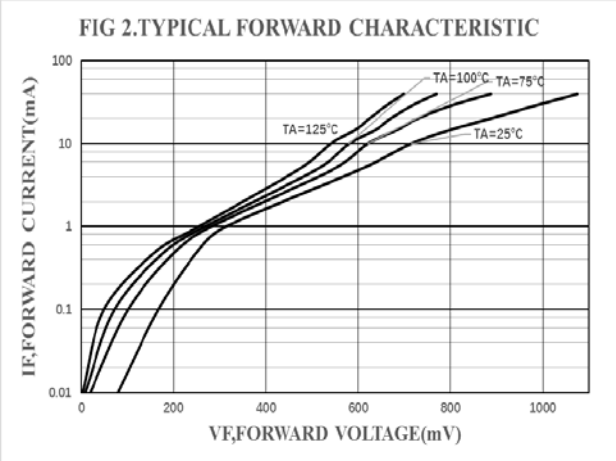
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F *2	I_F = 1mA	-	-	0.37	V
Maximum Peak Reverse Current	I_R *3	V_R = 30V	-	-	0.5	μA
Typical Junction Capacitance	C_J	V_R = 1V, f = 1MHZ	-	1.2	-	pF

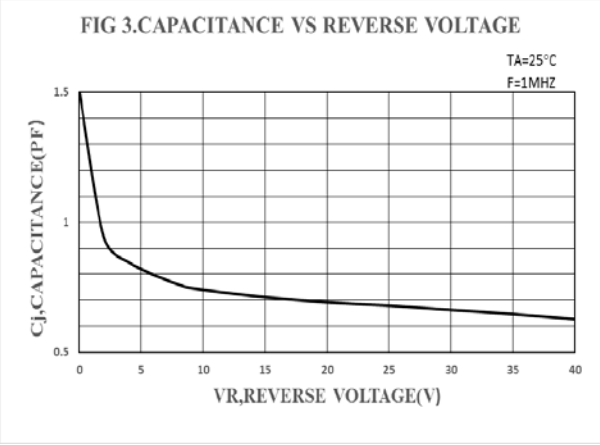
Notes:

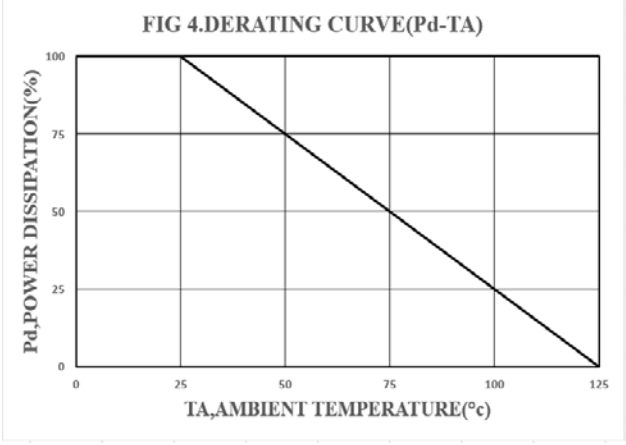
1. Part mounted on FR-4 board with recommended pad layout
2. Pulse width ≤380uS , Duty cycle < 2%
3. pulse test , tp≤5ms

Ratings and Characteristic Curves (@ T_A = 25°C unless otherwise specified)





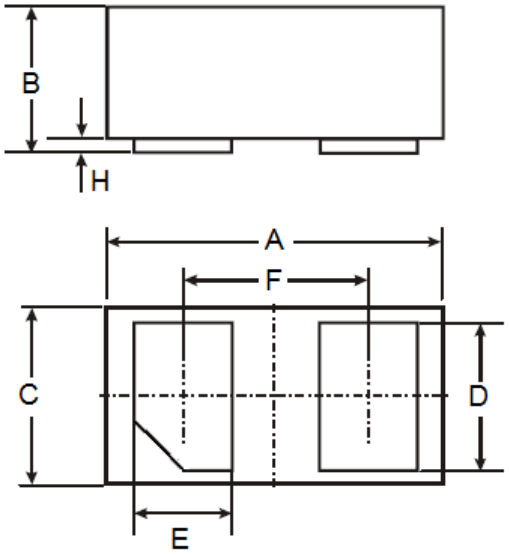




RB751LP3-40

Small Signal Schottky Barrier Diode

Package Outline Dimensions (Unit: mm)



DFN0603-2L			
Dimension	**Min.**	**Typ.**	**Max.**
A	0.595	0.620	0.645
B	0.270	0.300	0.350
C	0.295	0.320	0.345
D	0.190	0.240	0.290
E	0.140	0.190	0.240
F	-	0.355	-
H	0	0.020	0.030

Mounting Pad Layout (Unit: mm)

DFN0603-2L