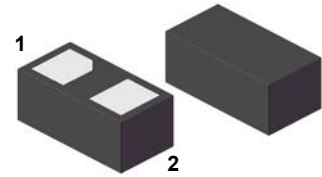


GSRB751D-40 Schottky Barrier Diode

Features

- Low forward voltage
- Low current rectification
- UL-94V-0



DFN0603



Schematic Diagram

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	30	V
Continuous Forward Current	I_O	30	mA
Non-Repetitive Peak Forward Current ¹	I_{FSM}	0.2	A
Power Dissipation	P_D	200	mW
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	425	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Forward Voltage	V_F	$I_F=1\text{mA}$	-	-	0.37	V
Reverse Current	I_R	$V_R=30\text{V}$	-	-	0.5	μA
Junction Capacitance	C_J	$V_R=1\text{V}$, $f=1\text{MHz}$	-	2	-	pF

Ratings and Characteristics Curves

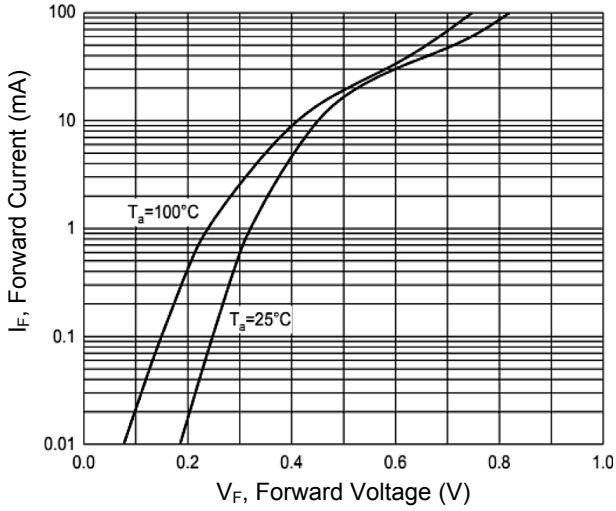


Figure 1. Forward Characteristics

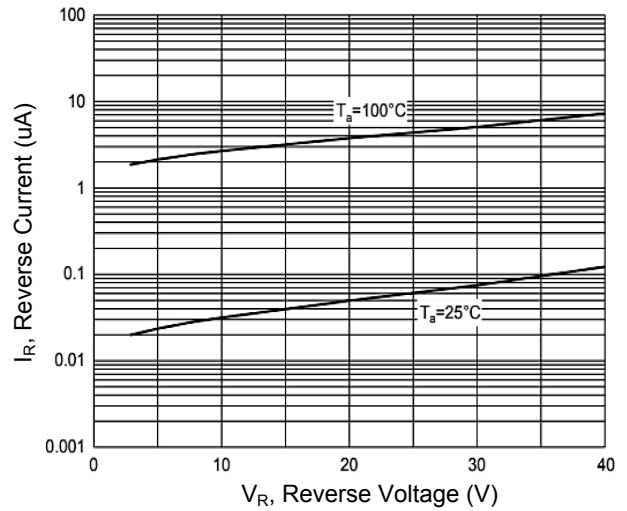


Figure 2. Reverse Characteristics

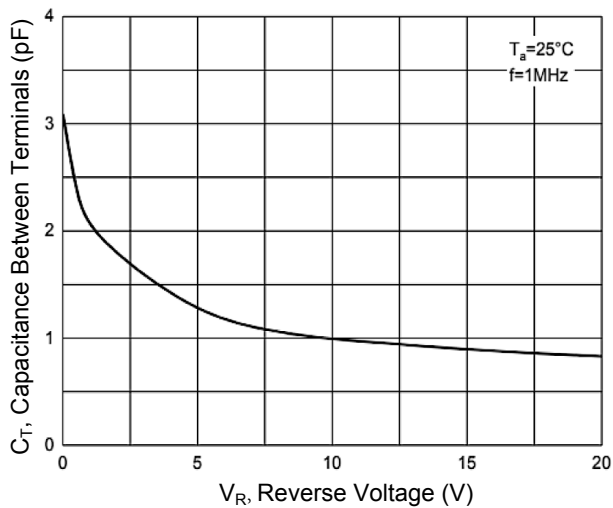


Figure 3. Capacitance Characteristics

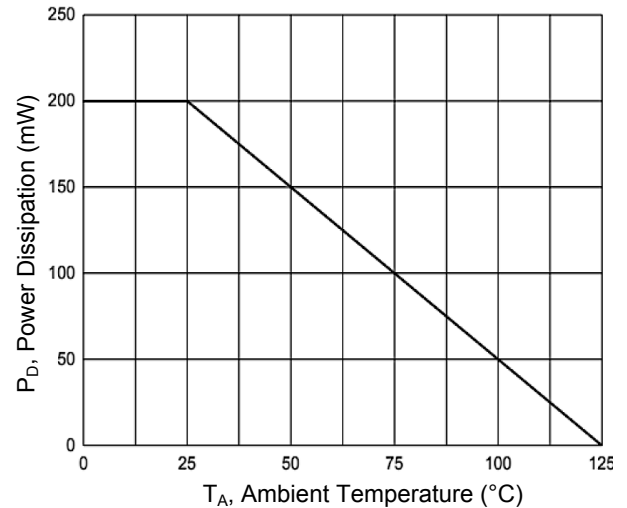
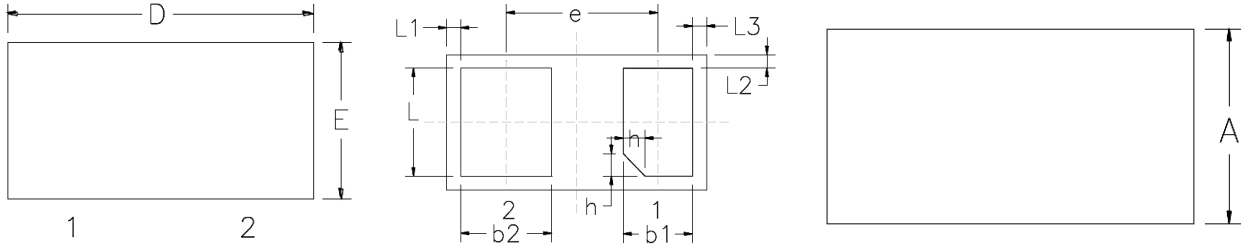


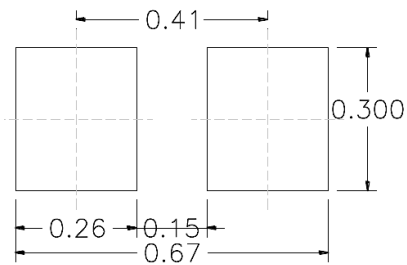
Figure 4. Power Derating Curve

Package Outline Dimensions (DFN0603)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.280	0.320	0.011	0.013
b1	0.130	0.230	0.005	0.009
b2	0.140	0.240	0.006	0.009
D	0.550	0.650	0.022	0.026
e	0.350 BSC		0.014 BSC	
L1	0.030 BSC		0.001 BSC	
L2	0.025 BSC		0.001 BSC	
L3	0.035 BSC		0.001 BSC	
E	0.250	0.350	0.010	0.014
L	0.200	0.300	0.008	0.012
h	0.000	0.100	0.000	0.004

Recommended Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

Order Information

Device	Package	Marking	Carrier	Quantity
GSRB751D-40	DFN0603	5	Tape & Reel	15,000 Pcs / Reel