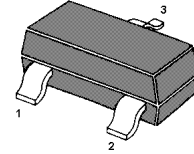
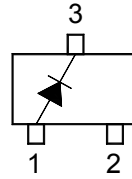


SDB721

Silicon Epitaxial Planar Schottky Barrier Diode

For small current rectification and switching applications



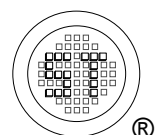
SOT-23 Plastic Package
1. Anode 2. NC 3. Cathode

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Peak Forward Current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current (10 ms)	I_{FSM}	1	A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	30	-	-	V
Forward Voltage at $I_F = 200 \text{ mA}$	V_F	-	-	0.55	V
Reverse Current at $V_R = 30 \text{ V}$	I_R	-	-	50	μA
Terminal Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	30	-	pF
Reverse Recovery Time at $I_F = I_R = 100 \text{ mA}$, $I_{rr} = 10 \text{ mA}$, $R_L = 100 \Omega$	t_{rr}	-	3	-	ns



Electrical Characteristics Curves

Fig 1. Reverse Characteristics Curve

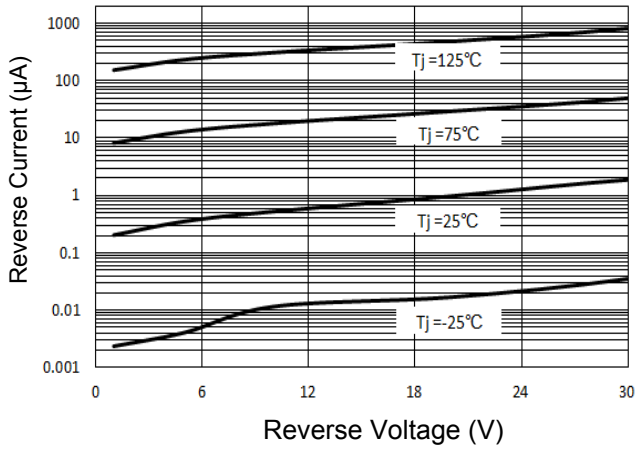


Fig 2. Forward Characteristics Curve

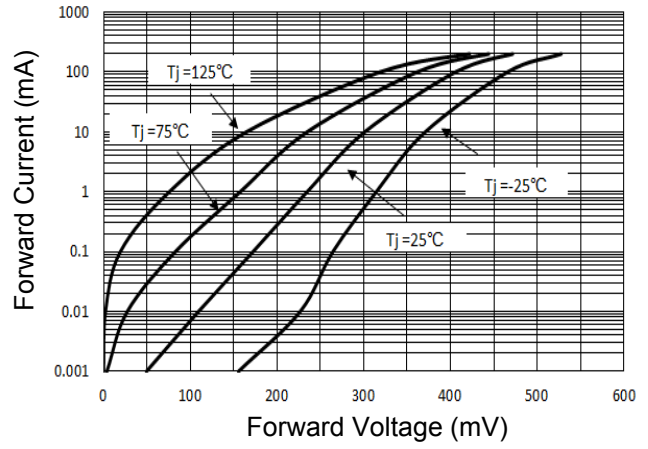


Fig 3. Junction Capacitance

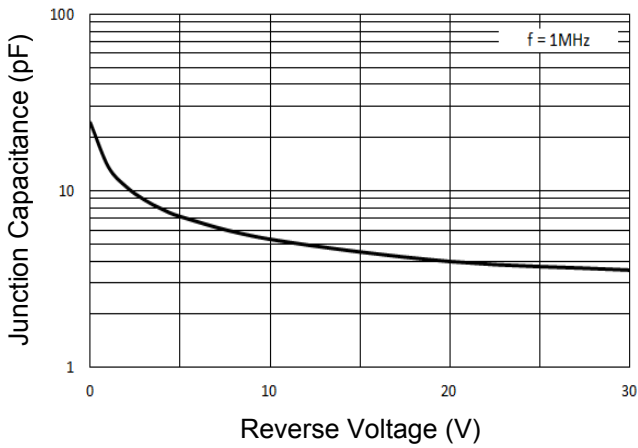
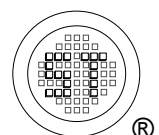
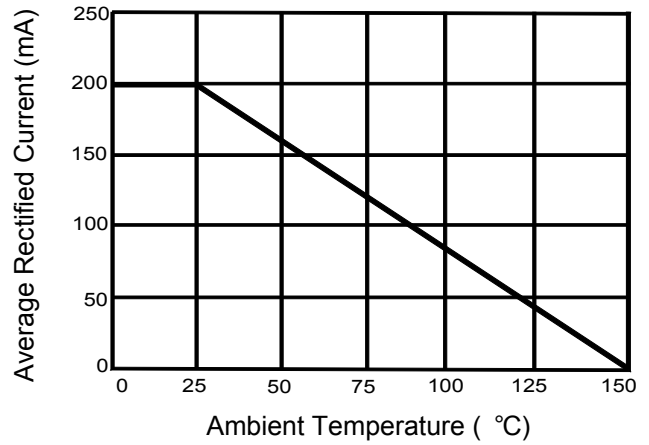
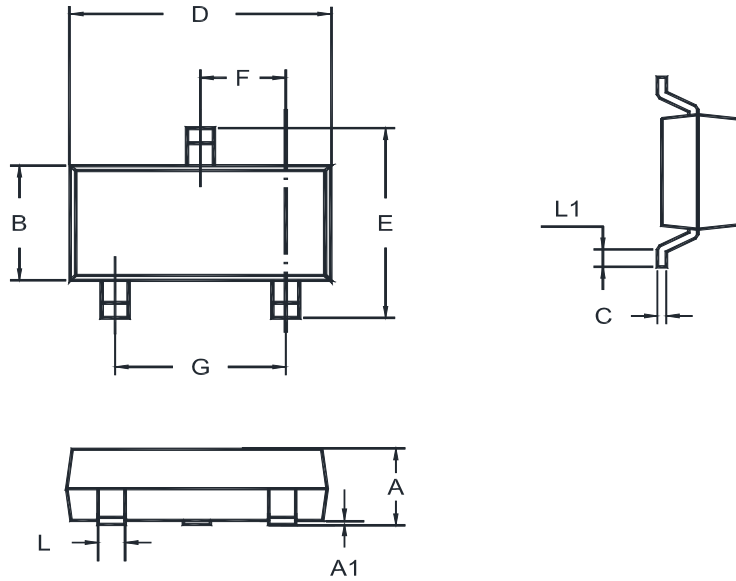


Fig 4. Average Rectified Current Derating Curve



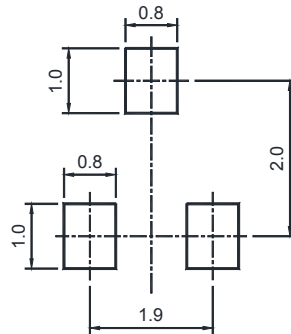
Package Outline (Dimensions in mm)

SOT-23



Unit	A	A1	B	C	D	E	F	G	L	L1
mm	1.20	0.100	1.40	0.19	3.04	2.6	1.02	2.04	0.51	0.2
	0.89	0.013	1.20	0.08	2.80	2.2	0.89	1.78	0.37	MIN

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-23	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

- " M1M " = Part No.
 - " YM " = Date Code Marking
 - " Y " = Year
 - " M " = Month
- Font type: Arial

