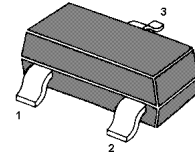
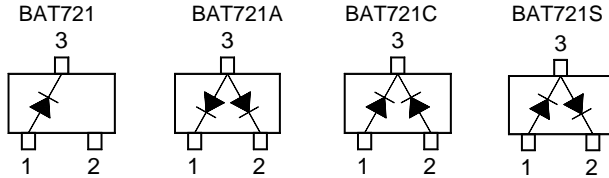


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Silicon Epitaxial Planar Schottky Barrier Diode

For small current rectification and switching applications



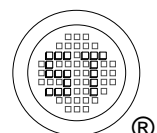
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Average Forward Current	$I_{F(AV)}$	200	mA
Non-Repetitive Peak Forward Surge Current (8.3 ms)	I_{FSM}	1	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	40	-	-	V
Forward Voltage at $I_F = 10 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V_F	-	-	300 420 550	mV
Reverse Current at $V_R = 30 \text{ V}$ at $V_R = 30 \text{ V}, T_J = 100^\circ\text{C}$	I_R	-	-	15 3	μA mA
Diode Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_d	-	23	50	pF



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Electrical Characteristics Curves

Fig 1. Reverse Characteristics Curve

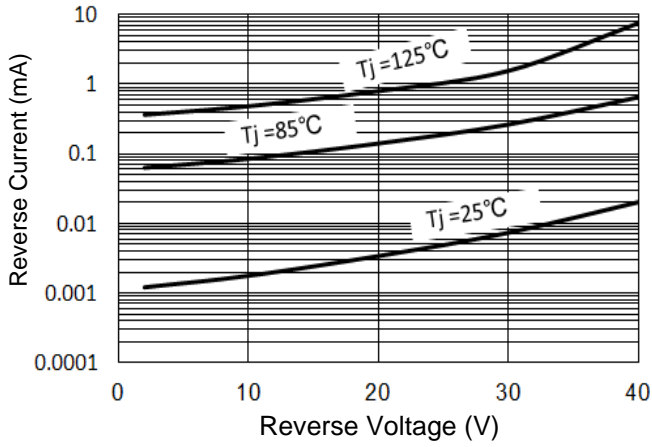


Fig 2. Forward Characteristics Curve

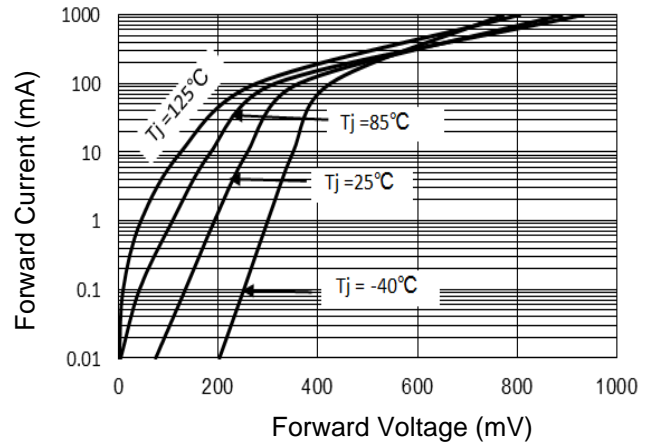


Fig 3. Junction Capacitance

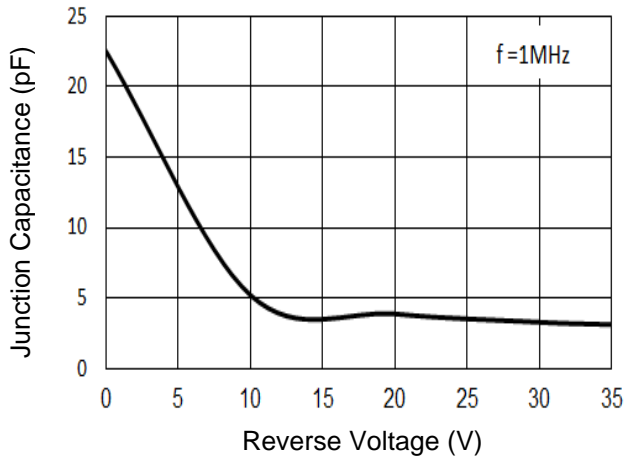
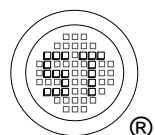
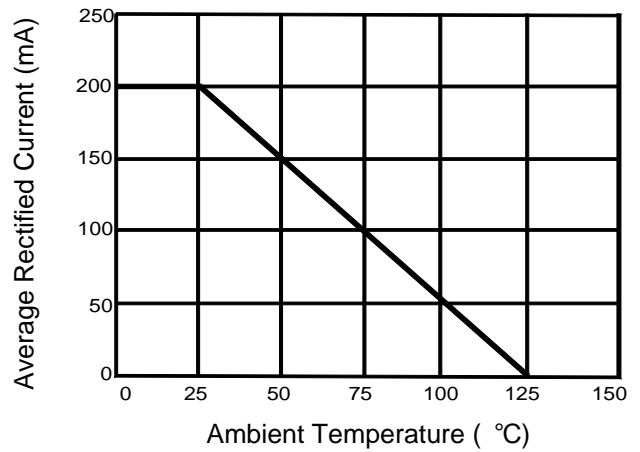


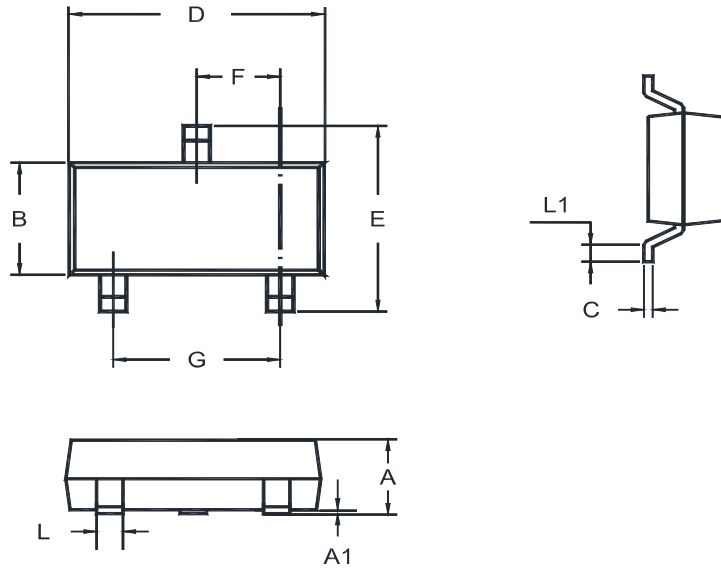
Fig 4. Average Rectified Current Derating Curve



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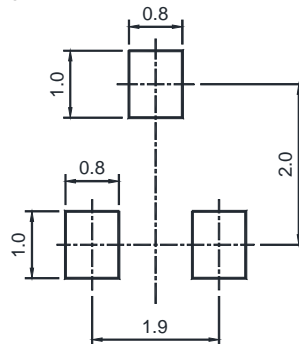
Package Outline (Dimensions in mm)

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

" ** " = Part No.

Type	Marking	Type	Marking
BAT721	L7	BAT721A	L8
BAT721C	L9	BAT721S	L0

" YM " = Date Code Marking

" Y " = Year

" M " = Month

Font type: Arial

