



Surface Mount Schottky Barrier Diode

Forward Current - 0.2 A
Reverse Voltage - 40 V

Description

- Low Forward Voltage
- Very low reverse current
- Surface Mound Device Type

Mechanical Data

- Case: SOT323 Package
- Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0
- Terminals: Matte tin plated, solderable per MIL-STD-750, method 2026
- Component in accordance to RoHS
- Halogen Free

Ordering Information

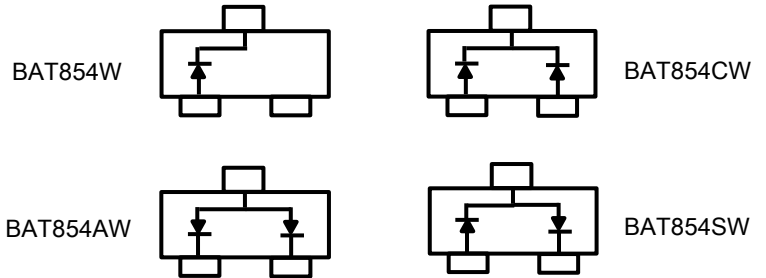
- Package :SOT323
- Reel Size :7 (inches)
- Quantity Per Reel :3,000 pcs

Package Outline

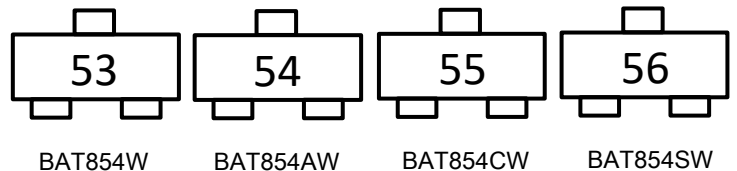


SOT323 Top View

Device Schematic & PIN Configuration



Product Type Marking Code



Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Absolute Ratings

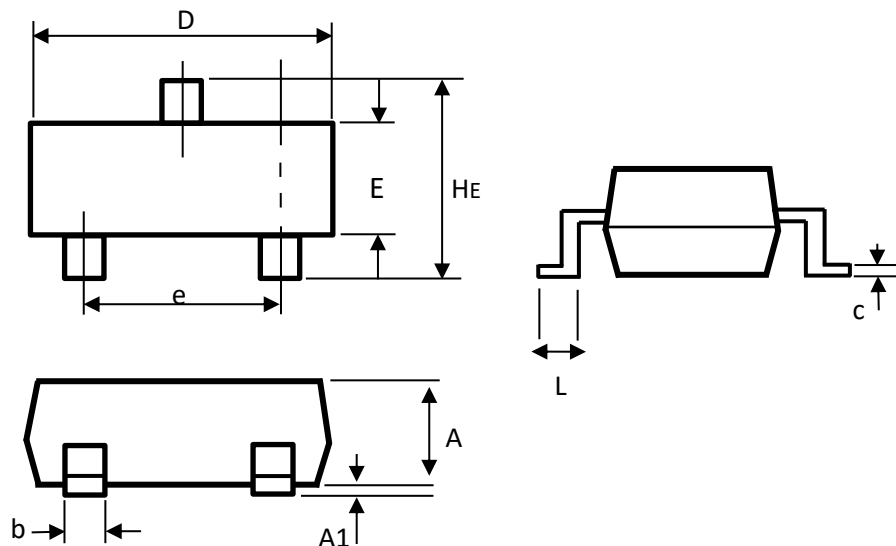
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Forward Current	I_F	200	mA
Repetitive Peak Forward Current @ $t_p \leq 1s$	I_{FRM}	300	mA
Peak Forward Surge Current @ $t = 8.3ms$	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

Electrical Characteristics

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Reverse Current	$V_R = 25V$	I_R	-	-	0.80	μA
Forward Voltage	$I_F = 30mA$	V_F	-	-	0.42	V
	$I_F = 100mA$		-	-	0.55	
Total Capacitance	$V_R = 1V, f = 1MHz$	C_T	-	-	20	pF

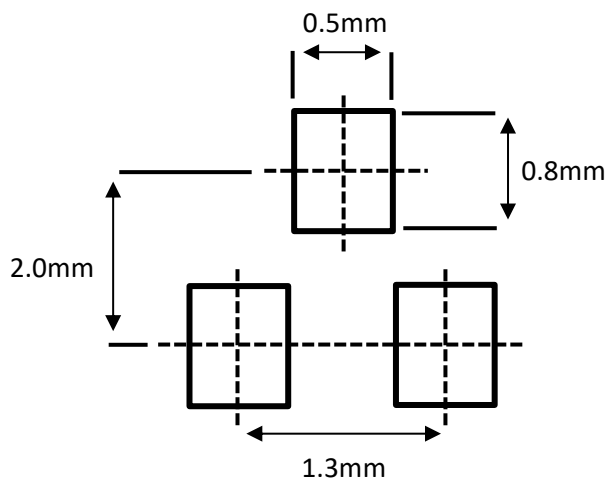


Package Outline Dimensions



SOT323 Package		
Dim	Min	Max
A	0.90	1.00
A1	0.01	0.10
b	0.25	0.45
c	0.09	0.15
D	2.00	2.20
E	1.15	1.35
e	1.20	1.40
L	0.25	0.46
HE	2.15	2.55
All Dimensions in mm		

Suggested Soldering Pad Layout



Note:

- 1.The pad layout is for reference purposes only.
- 2.General tolerance $\pm 0.05\text{mm}$



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