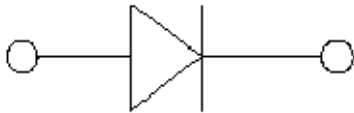


Small-Signal Schottky Barrier Diode



Features

- High reliability
- Fast Switching
- Low Forward Voltage Schottky Rectifier

Mechanical Data

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** L9

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

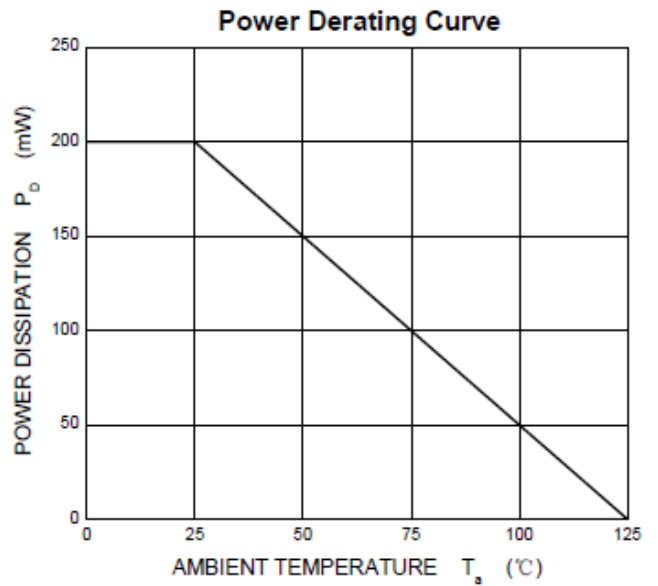
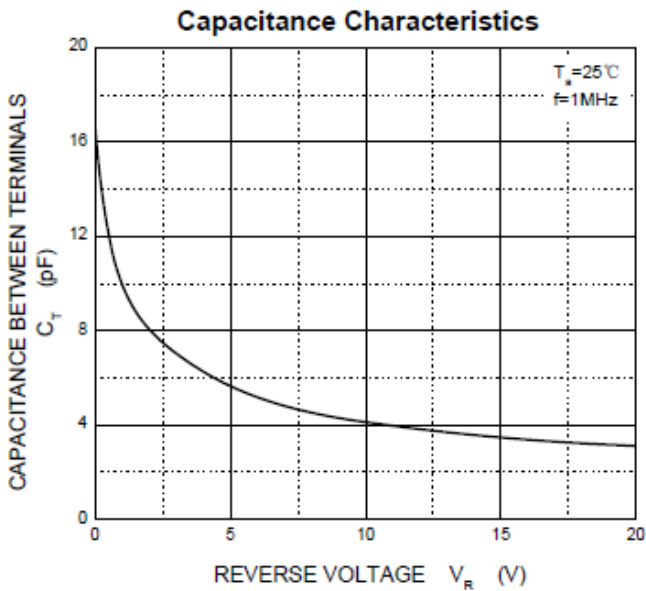
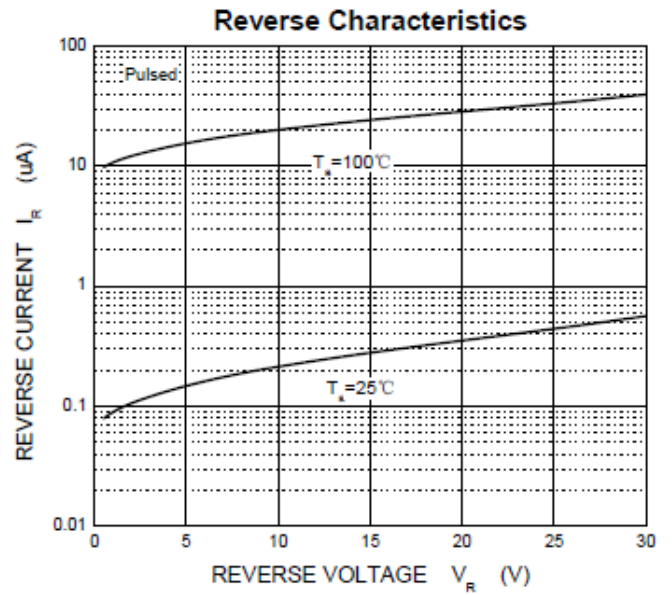
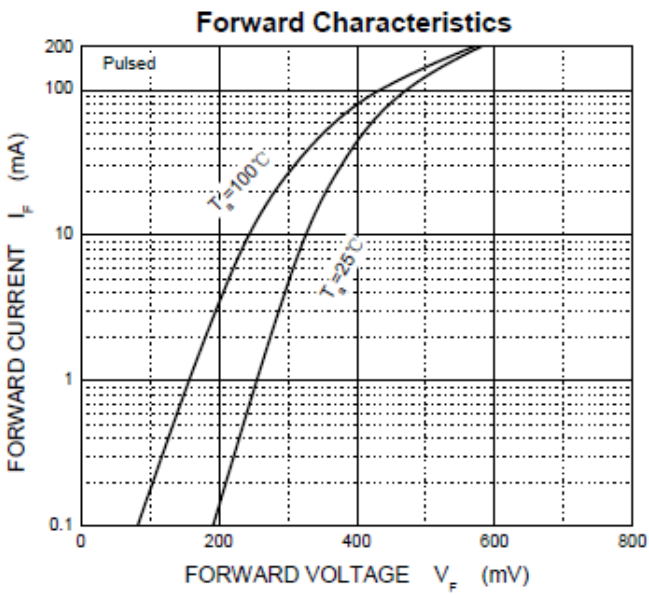
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V _{RRM}	V		30
Peak forward surge current	I _{FSM}	A	t _p < 1s	0.6
Average forward current	I _{FAV}	mA		200
Power dissipation	P _{tot}	mW		200
Maximum junction temperature	T _j	°C		-55 to +125
Storage temperature range	T _{stg}	°C		-55 to +150

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V _F	V	I _F =0.1mA	0.24
			I _F =1mA	0.32
			I _F =10mA	0.40
			I _F =30mA	0.50
			I _F =100mA	1.00
Maximum Reverse current	I _R	μA	V _R =25V	2
Minimum Breakdown voltage	V _(BR)	V	I _R =10μA	30
Maximum Diode capacitance	C _D	pF	V _R =1V, f = 1MHz	10
Maximum Reverse recovery time	t _{rr}	ns	I _F =I _R =10mA I _{RR} =1mA, R _L =100Ω	5



■ Characteristics (Typical)



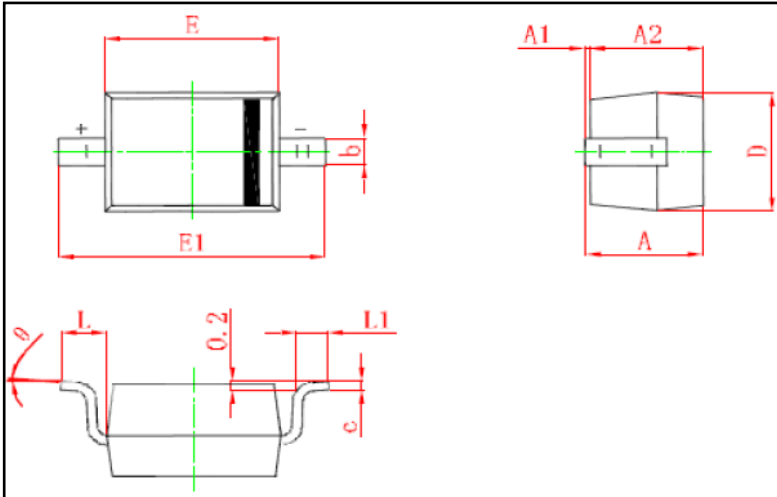


BAT54WS

Ordering Information (Example)

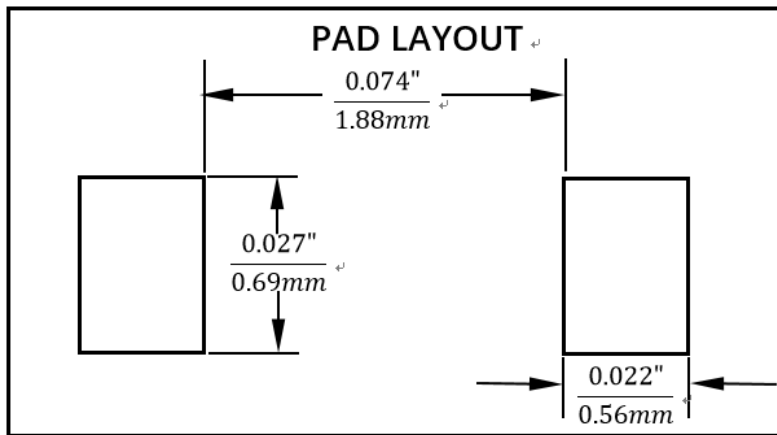
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54WS	F2	Approximate 0.0033	3000	30000	120000	7" reel

Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

Soldering Footprint





BAT54WS

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