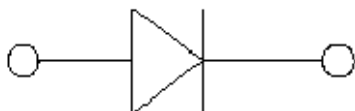


Small-Signal Schottky Barrier Diode



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
Thermal Resistance, Junction to Ambient	R _{θJA}	°C/W		500
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)

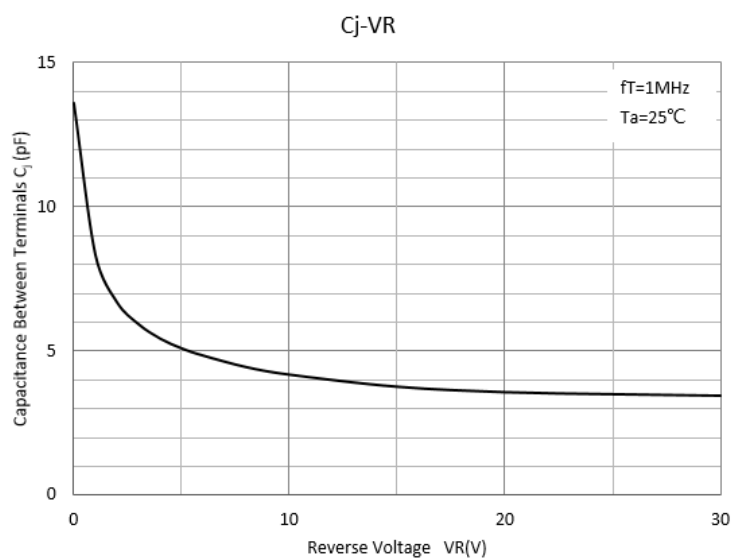
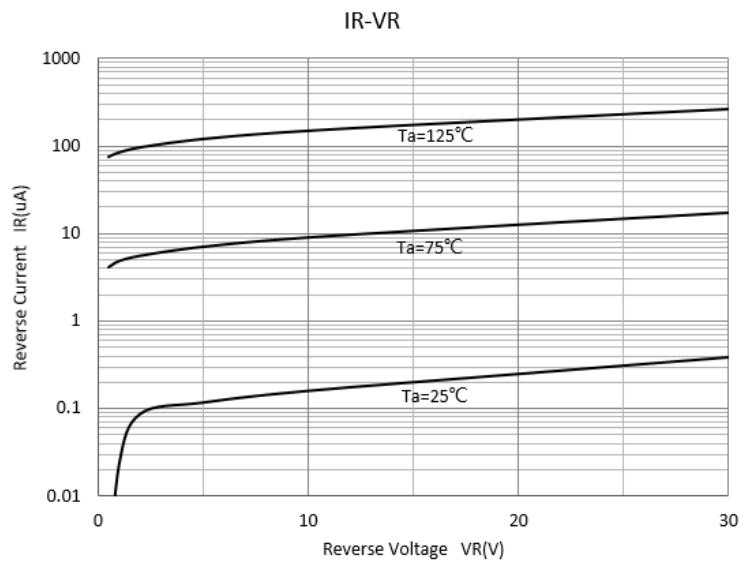
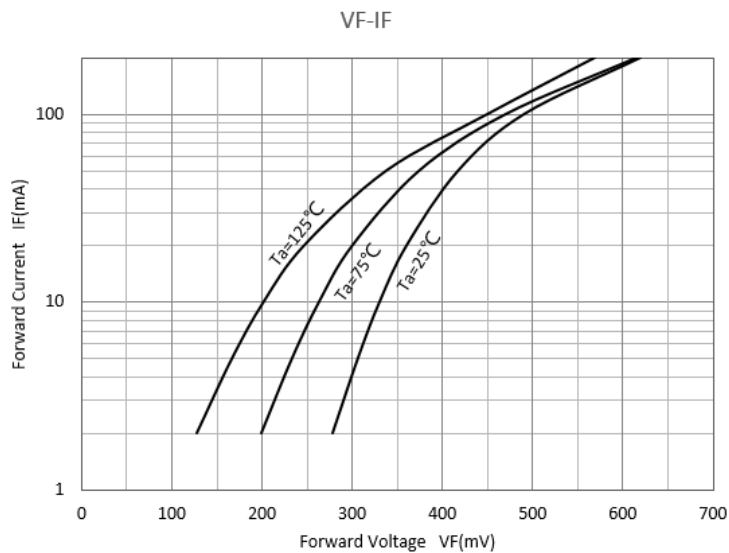
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V _F	V	I _F =0.1mA	0.24
			I _F =1mA	0.32
			I _F =10mA	0.40
			I _F =30mA	0.50
			I _F =100mA	1.00
Maximum Reverse current	I _R	μA	V _R =25V	2
Minimum Breakdown voltage	V _(BR)	V	I _R =10μA	30
Maximum Diode capacitance	C _D	pF	V _R =1V,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

BAT54WS

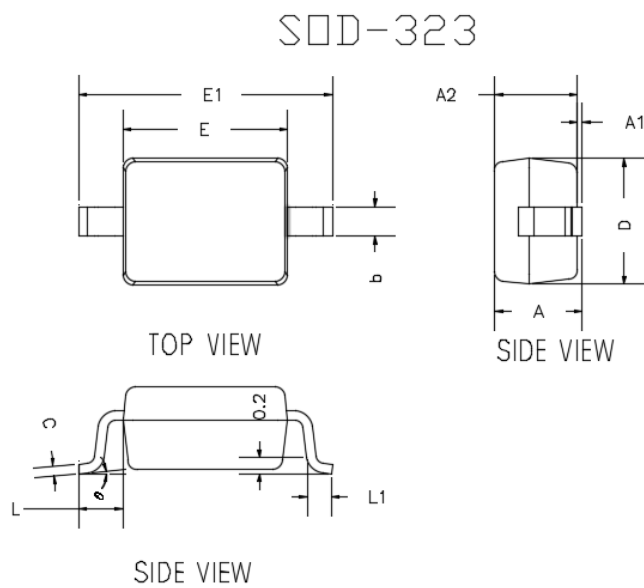
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54WS	F2	Approximate 0.0048	3000	30000	120000	7" reel

■Characteristics (Typical)

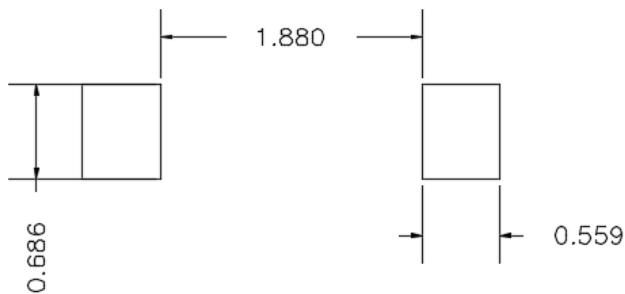


■Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

■Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT

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