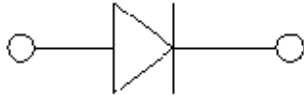


Schottky Rectifier



Features

- V_R 30V
- I_{FAV} 0.2A

Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** L9

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

PARAMETER	SYMBOL	UNIT	VALUE
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	V	30
DC Blocking Voltage	V_R	V	30
Peak forward surge current (8.3ms, half sine)	I_{FSM}	A	0.6
Average forward current	I_{FAV}	A	0.2
Power dissipation	P_D	mW	500
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C/W	200
Maximum junction temperature	T_j	°C	-55 to +125
Storage temperature range	T_{stg}	°C	-55 to +150

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

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	V_R	V	$I_R=100\mu A$	30		
Forward Voltage	V_F	V	$I_F=0.1mA$			0.24
			$I_F=1mA$			0.32
			$I_F=10mA$			0.4
			$I_F=30mA$			0.5
			$I_F=100mA$			1.0
Reverse Leakage Current	I_R	μA	$V_R=25V$			2
Typical Junction Capacitance	C_J	pF	$V_R=1V, f=1MHz$			10
Reverse Recovery Time	T_{rr}	ns	$I_F=I_R=10mA, I_{rr}=1mA$			5

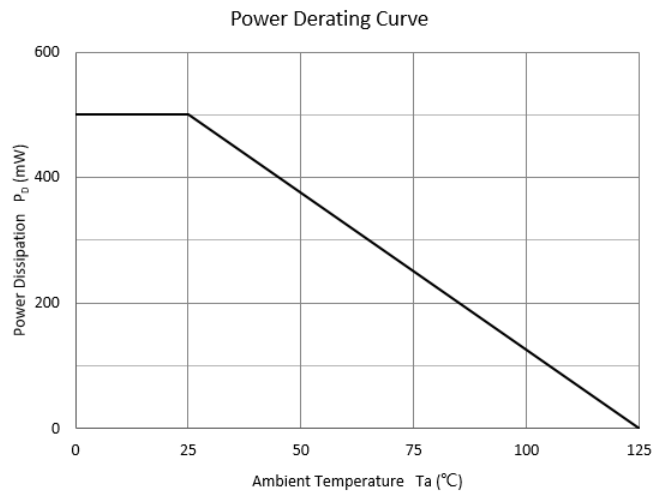
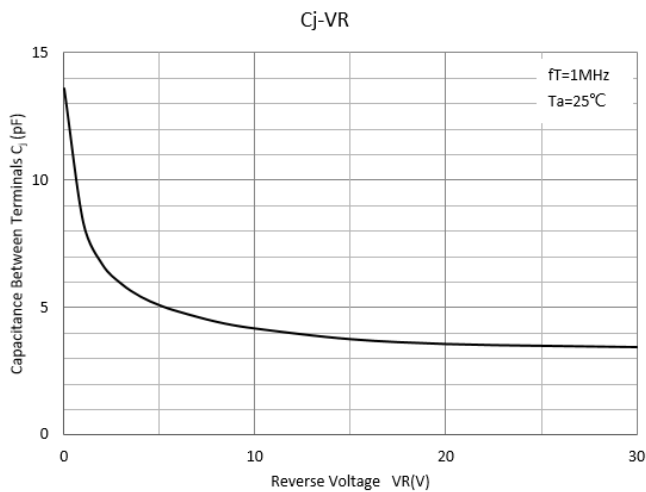
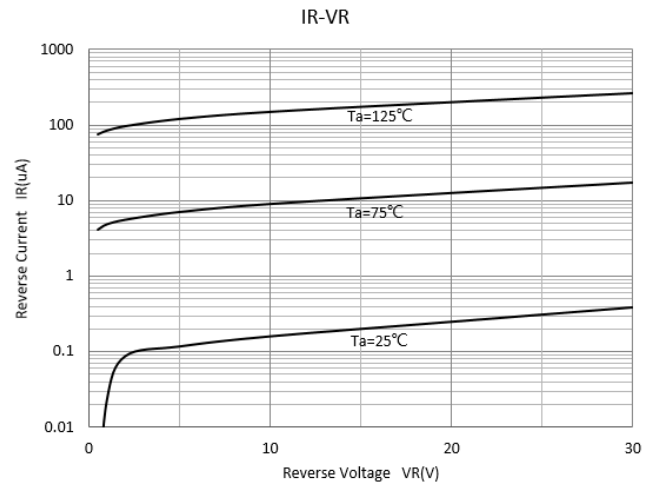
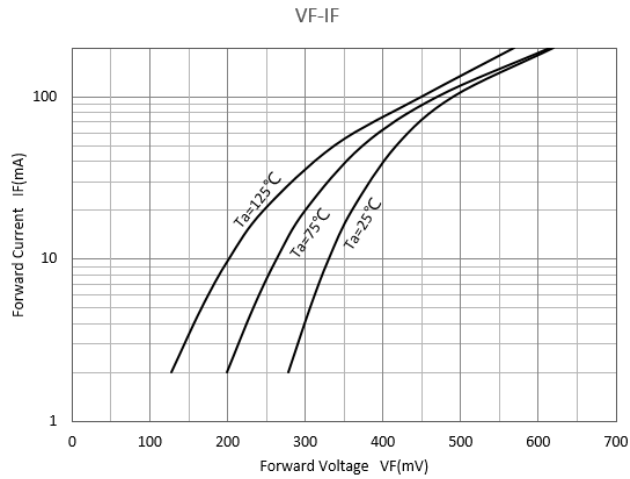


BAT54W

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54W	F2	Approximate 0.011	3000	30000	120000	7" reel

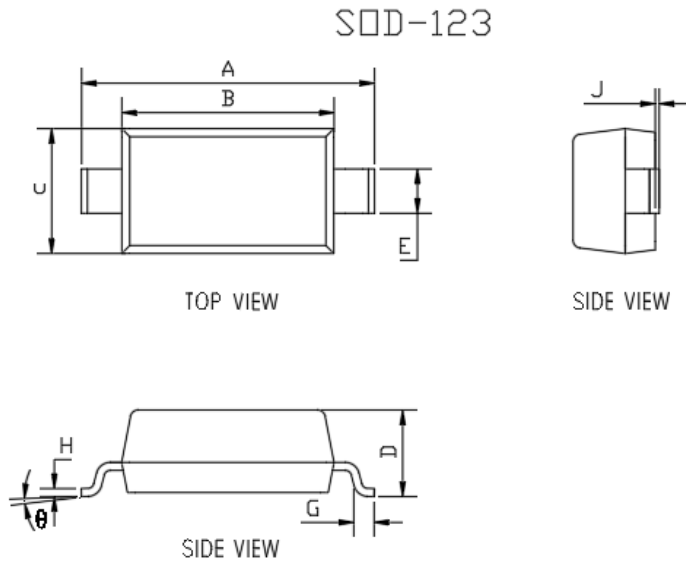
Characteristics (Typical)





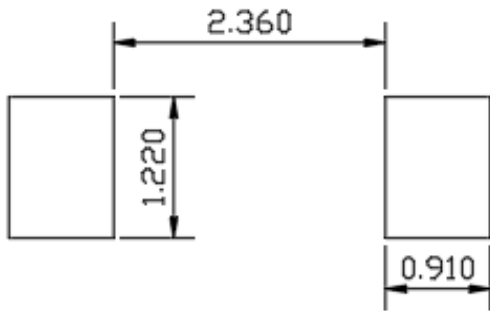
BAT54W

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.140	0.152	3.550	3.850
B	0.100	0.112	2.550	2.850
C	0.055	0.071	1.400	1.800
D	0.037	0.053	0.950	1.350
E	0.020	0.028	0.510	0.710
G	0.006	0.018	0.150	0.450
H	0.003	0.010	0.080	0.250
J	0.000	0.006	0.000	0.150
θ	0	8°	0	8°

■ Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



BAT54W

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