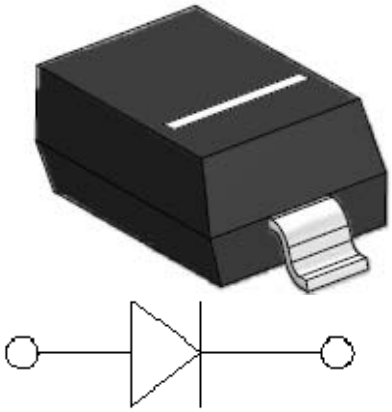
Small Signal Schottky Diode



Features

- V_R 100V
- I_{FAV} 150mA

Mechanical Data

- **Package**: SOD-323
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** S9

■Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Non-Repetitive Peak Forward Surge Current	I_{FSM}	mA	t_p=8.3ms	750
Average forward current	I_{FAV}	mA		150
Power dissipation	P_D	mW		200
Thermal Resistance From Junction To Ambient	R_{thJA}	℃/W		625
Junction temperature	T_j	℃		125
Storage temperature range	T_{stg}	℃		-55 to +150

■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

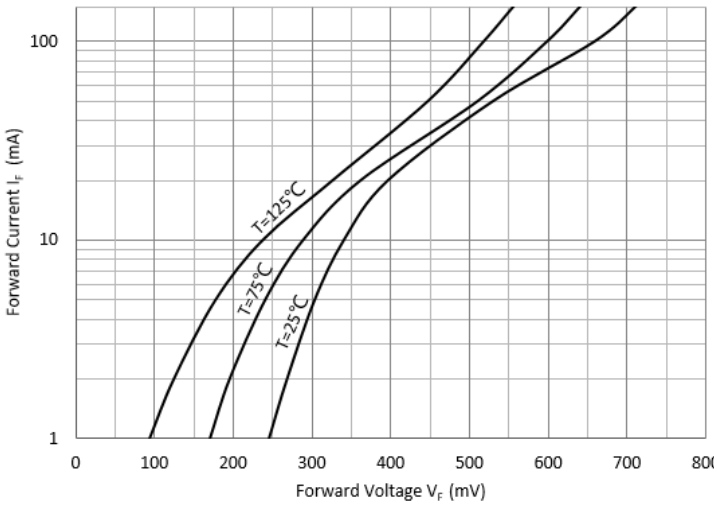
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V_F	V	I_F=0.1mA	0.25
		V	I_F=10mA	0.45
		V	I_F=250mA	1
Maximum Reverse current	I_R	uA	V_R=1.5V	0.3
		uA	V_R=10V	0.5
		uA	V_R=50V	1
		uA	V_R=75V	2
Minimum Breakdown voltage	V_R	V	I_R=100μA	100
Maximum Diode capacitance	C_D	pF	V_R=0V, f =1MHz	20
			V_R=1V, f =1MHz	12

■Ordering Information (Example)

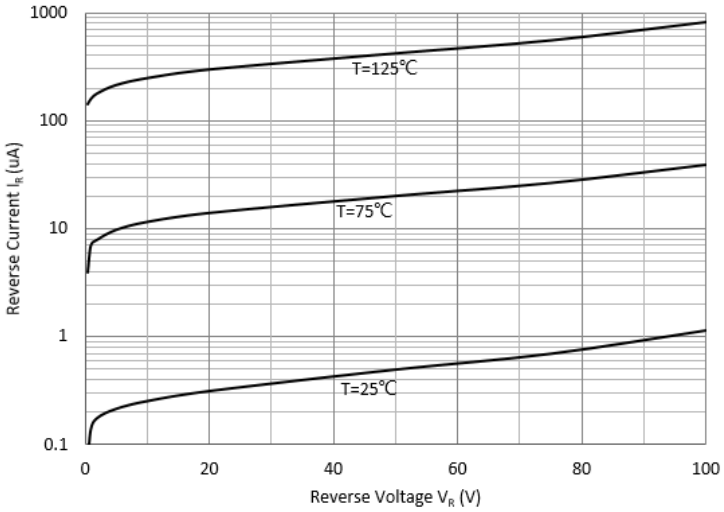
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT46WS	F2	Approximate 0.0048	3000	30000	120000	7” reel

■ Characteristics (Typical)

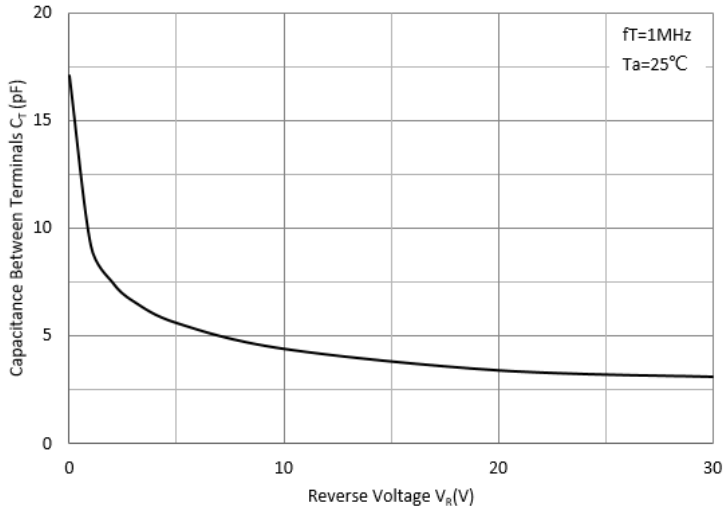
Forward Characteristics



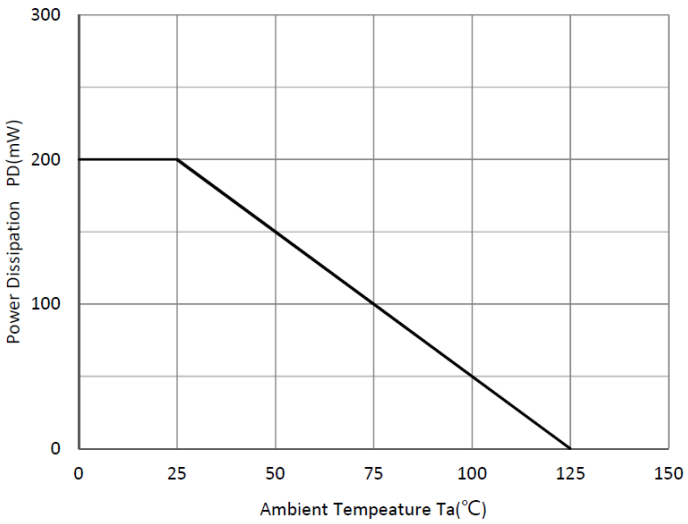
Reverse Characteristics



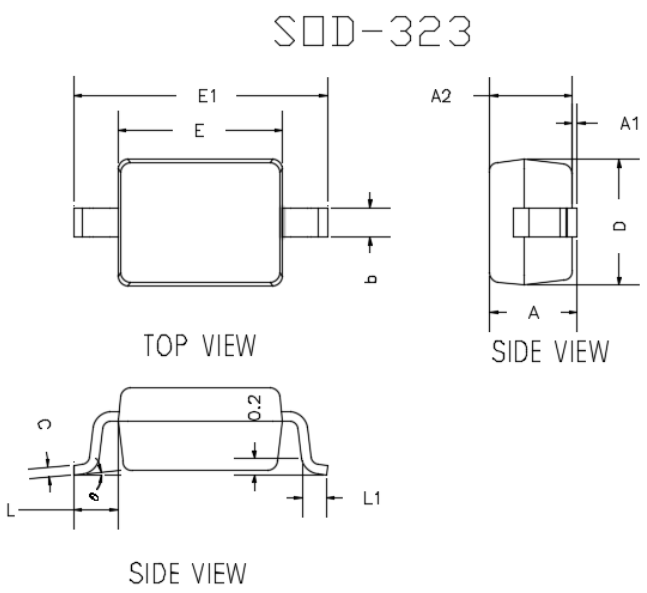
Capacitance Characteristics



Power Derating Curve



■Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	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

