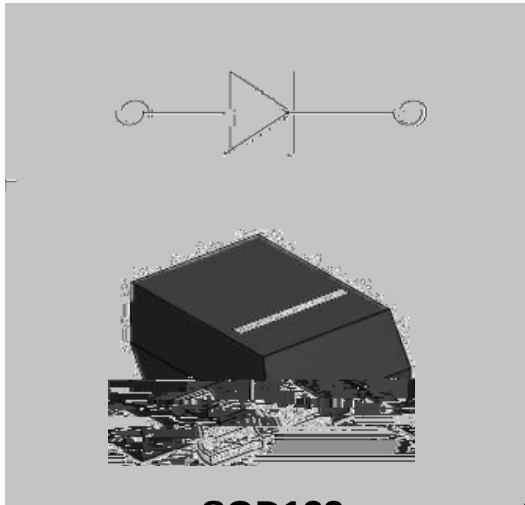


Small Signal Schottky Diode



SOD123

Features

- Epoxy meets UL-5

Mechanical Data

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

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Maximum Repetitive peak reverse voltage	V_{RRM}	V		100
Average Forward Current	I_{FAV}	mA		150
Peak Forward Surge Current	I_{FSM}	A	8.3ms, half sine	5
Power Dissipation	P_{tot}	mW		200
Thermal Resistance Junction to Ambient	R_{thJA}	K/W		500
Junction Temperature	T_J			-55 to +125
Storage Temperature Range	T_{stg}			-55 to +150



BAT46WQ

■ Electrical Characteristics $T_a=25$ Unless otherwise specified

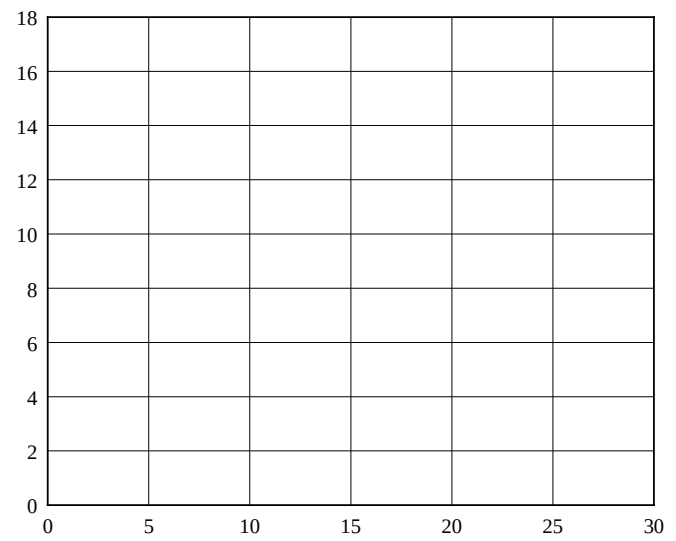
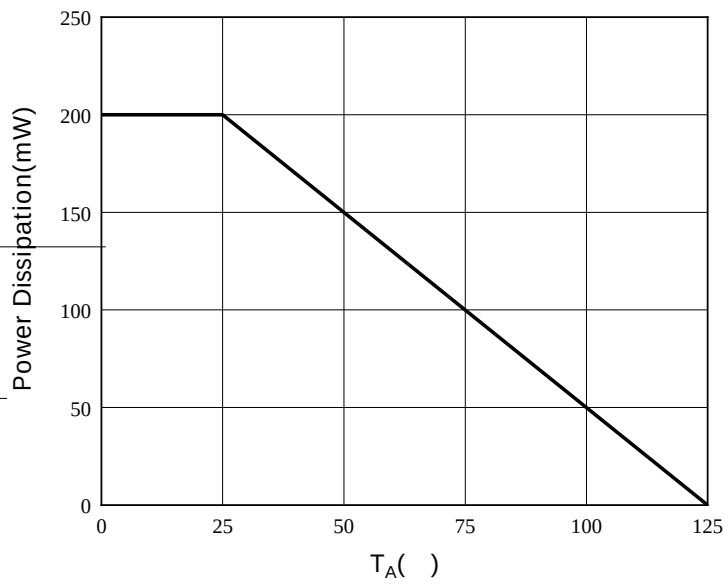
PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	MAX
Forward Voltage	V_F	V	$I_F=0.1\text{mA}$		0.25
			$I_F=10\text{mA}$		0.45

I_F



■ Characteristics (Typical)

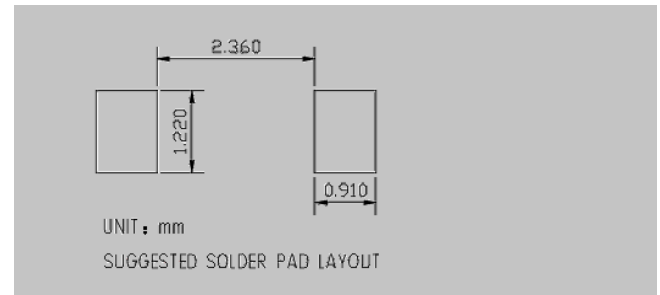
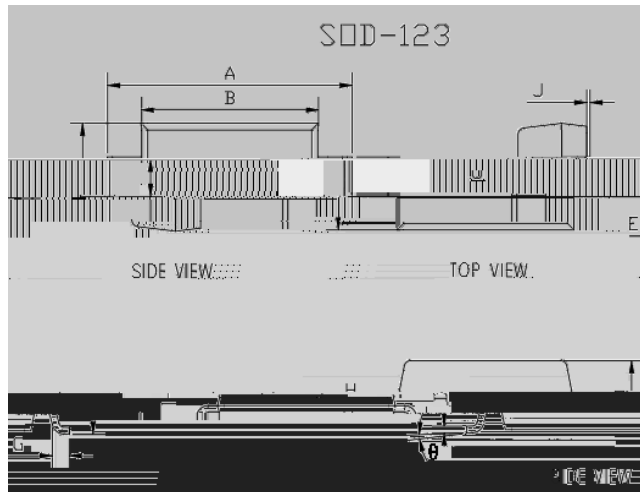
Fig.1: P_D - T_A





BAT46WQ

■ 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
F	0.150	0.450	G	0.006
H	0.080	0.250	H	0.003
I	0.000	0.150	J	0.000
θ	0	8°	θ	0

■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black

