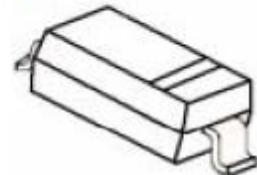


Features

- High current capacity, low VF
- Low power loss/high efficient

SOD-123


Mechanical Data

SOD-123 Small Outline Plastic Package

Polarity: Color band denotes cathode end

Marking: SJ

Epoxy UL: 94V-0

Mounting Position: Any

Making: SJ

Maximum Rating @ Ta=25 °C unless otherwise specified

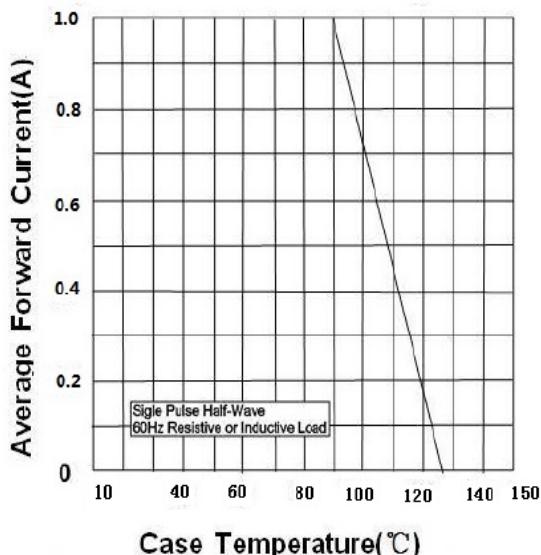
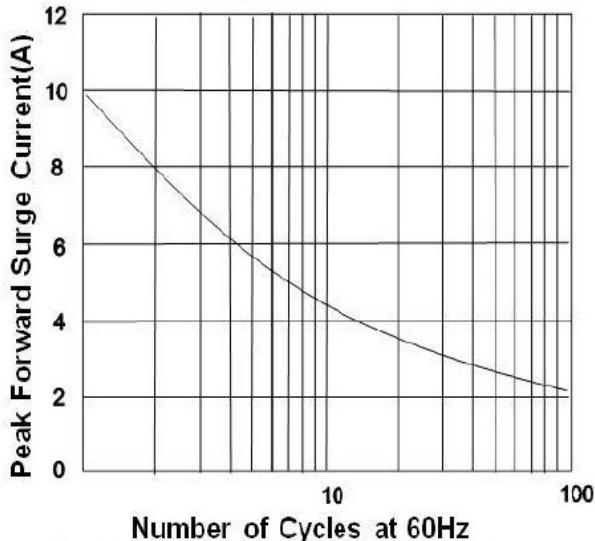
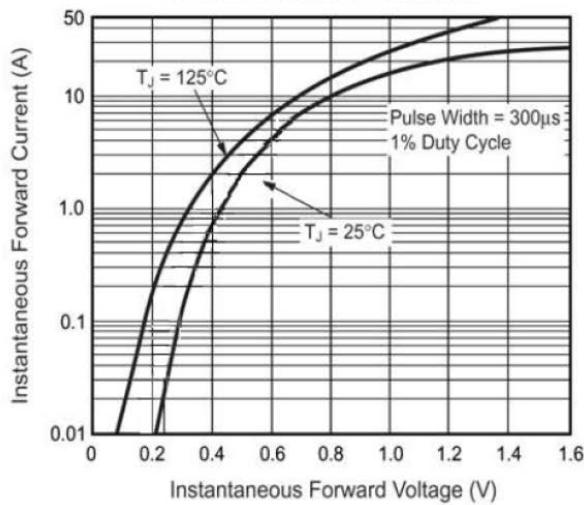
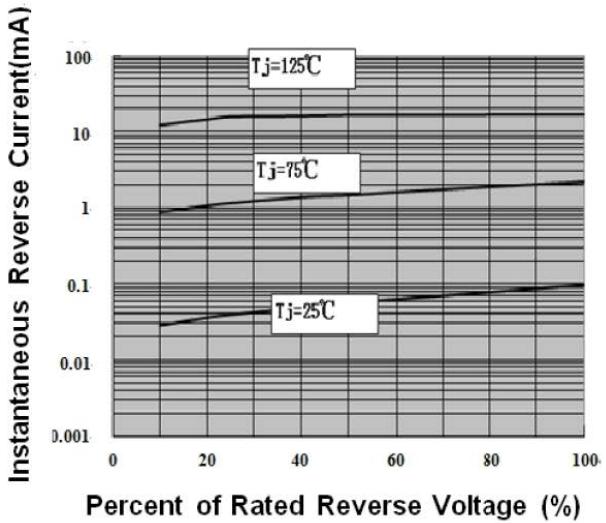
Parameter	symbol	B5817W	Unit
Non-Repetitive Peak reverse voltage	V _{RSM}	24	V
Maximum repetitive peak reverse voltage	V _{RRM}	20	V
Maximum RMS voltage	V _{RMS}	14	V
Maximum DC blocking voltage	V _{DC}	20	V
Maximum average forward rectified current	I _F	1.0	A
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	10	A
Power Dissipation	P _d	500	mW
Typical thermal resistance	R _{θJA}	250	°C/W
Storage temperature range	T _J , T _{STG}	-50-+150	°C

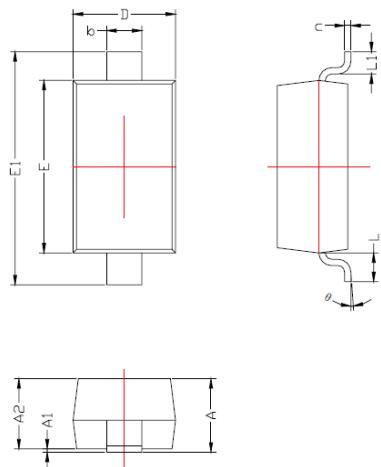
Electrical Characteristics

(Ratings at 25 °C ambient temperature unless otherwise specified).

Parameter	symbol	Test conditions	B5817W	Unit
Maximum forward voltage	V _F	IF = 1.0A IF = 3.0A	0.450 0.750	V
Maximum reverse breakdown voltage	V _R	IR=1mA	20	V
Maximum reverse current	I _R	VR=20V	1.0	mA
Type junction capacitance	C _j	VR = 4.0V, f = 1MHz	120	pF

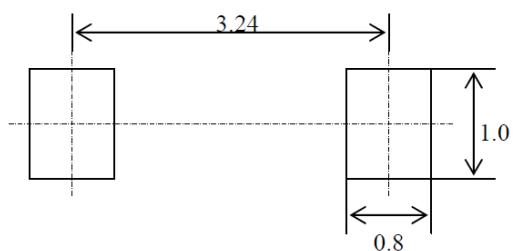
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Fig.1 Forward Current Derating Curve

Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 - Typical Instantaneous Forward Characteristics

Fig.4 Typical Reverse Characteristics


PACKAGE OUTLINE


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

焊盘设计参考 Precautions: PCB Design(Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs)



技术要求:

- 1, 塑封体尺寸: 2.70 X 1.60
- 2: 未注公差为: ±0.05
- 3, 所有单位: mm

