

SCHOTTKY BARRIER RECTIFIERS

SOD-123



PIN	DESCRIPTION
1	Cathode
2	Anode

Marking :L9

Features

- Metal silicon junction, majority carrier conduction
- Guarding for overvoltage protection
- Low power loss, high efficiency
- High current capability
- low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	BAT54W	Units
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Maximum Average Forward Current at Ta=25°C	I_O	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	0.6	A
Maximum Instantaneous Forward Voltage	V_F	0.32 @ IF=0.001A 1.0 @ IF=0.1A	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	2.0 @VR=25V	A
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	610	°C/W
Storage and Operating Junction Temperature Range	T_j, T_{stg}	-55 ~ +150	V

Fig.1 Forward Current Derating Curve

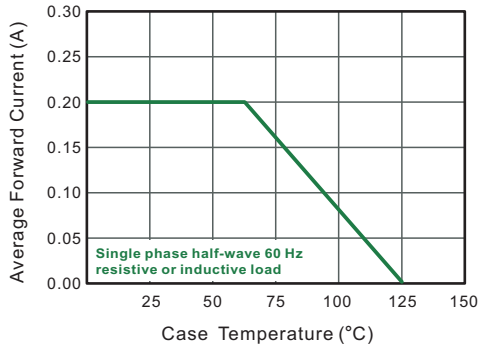


Fig.2 Typical Reverse Characteristics

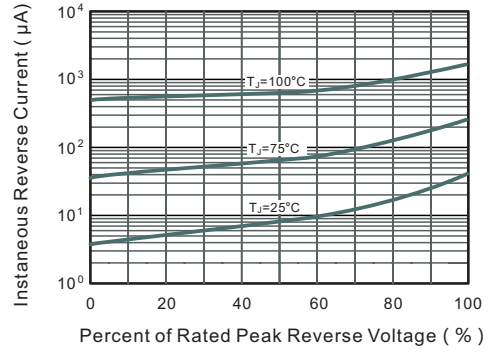


Fig.2 TYPICAL FORWARD VOLTAGE

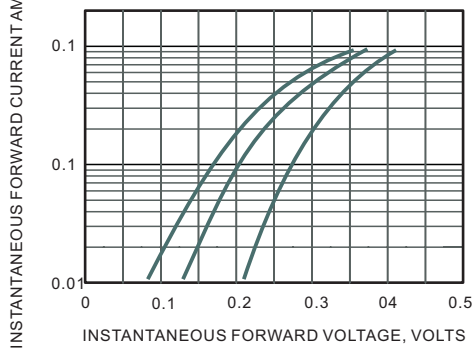


Fig.4 Typical Junction Capacitance

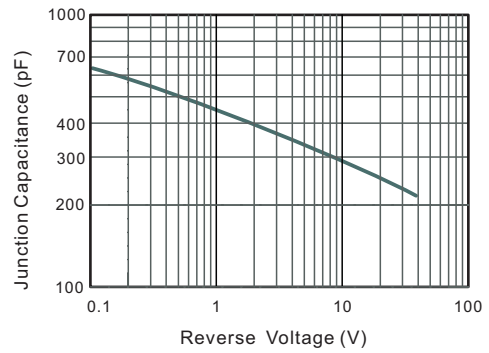
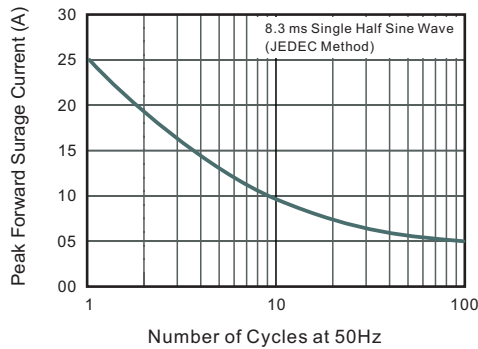


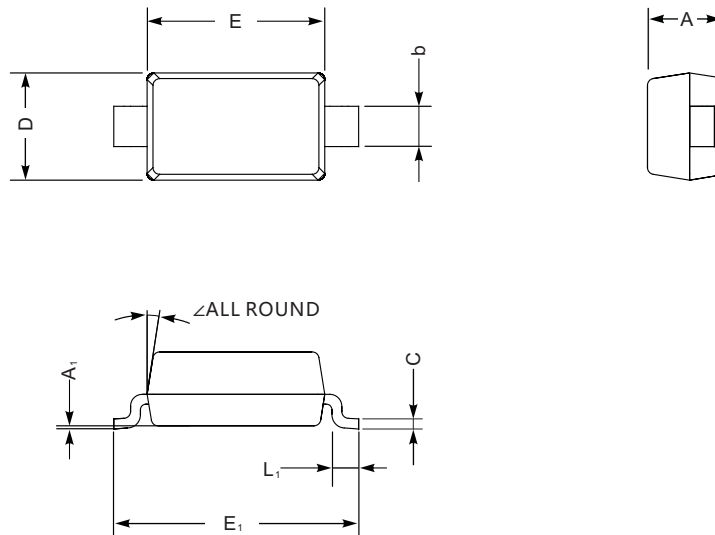
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

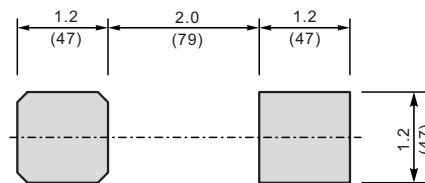
SOD-123



SOD-123 mechanical data

UNIT		A	C	D	E	E ₁	L ₁	b	A ₁	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	—	
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20	—	

The recommended mounting pad size



Unit: $\frac{\text{mm}}{\text{mil}}$

单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)