

Features

- ◆ Fast Switching Speed
- ◆ Surface Mount Package Ideally Suited for
- ◆ Automatic Insertion
- ◆ For General Purpose Switching Applications
- ◆ High Conductance



SOD-123

Absolute Maximum Ratings Ta = 25°C

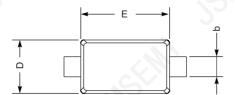
Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	VrrmVrwm Vr	75	V
RMS reverse voltage	V _R (RMS)	53	V
Average rectified output current	lo	150	mA
Forward Continuous Current	Iғм	300	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0 \mu s$ @ $t = 1.0s$	IFSM	2.0 1.0	A
Power dissipation	PD		mW
Typical Thermal Resistance Junction to Ambient	Reja	315	°C/W
Operating and storage temperature range	Tj,Tstg	-65 to +150	°

Electrical CharacteristicsTa=25°C

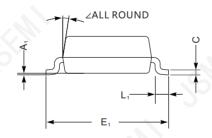
Parameter	Symbol	Testconditons		Min	Тур	Max	Unit
Reverse Breakdown Voltage	V(BR)R	IR = 1.0 μ A)	75			V
		IF = 1.0mA				0.745	
Forward veltage	VFM	IF = 10mA				0.855	V
Forwarad voltage	VFM	IF = 50mA				1.0	V
		IF = 150mA				1.25	
(2)		VR = 75V				1.0	μ А
Peak Revrse current	lкм	VR = 75V,TJ=150℃				50	μ А
reak Nevise Current		VR = 25V,TJ=150℃				30	nA
		V _R = 20V				25	nA
Junction Capacitance	Cı	VR = 0, f = 1.0MHz				2.0	pF
Reverse Recovery Time	trr	IF=IR=10mA,I _{II} =0.1xIR,RL=100 Ω		S		4.0	ns



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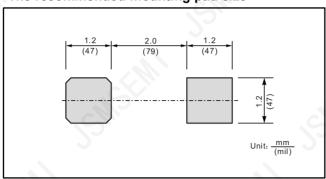




SOD-123 mechanical data

UNIT		Α	С	D	Е	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		
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	_	9°	
mil	max	51	8.7	71	110	154	18	28	8	9	
	min	35	3.5	59	98	142	10	20	_		

The recommended mounting pad size





Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024
-11		

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