

Features

- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mount Package Ideally Suited for Automatic Insertion

W. Investor

SOD-123



Package Marking and Ordering Information

Product ID	roduct ID Pack		Qty(PCS)
MMSD301T1G	SOD-123	S8	3000

Maximum Ratings (Ta=25°C unless otherwise noted)

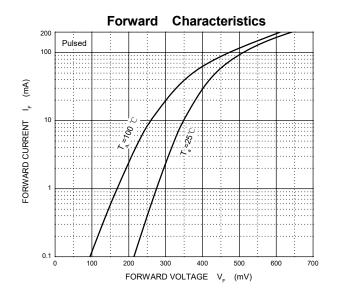
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltag	V_{RWM}	30	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	21	٧
Forward Continuous Current	I _{FM}	200	mA
Repetitive Peak Forward Current @t<1.0s	I _{FRM}	500	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	4.0	А
Power Dissipation	P _D	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	°C/W
Junction temperature	TJ	125	°C
Storage Temperature	T _{STG}	-55~+150	°C

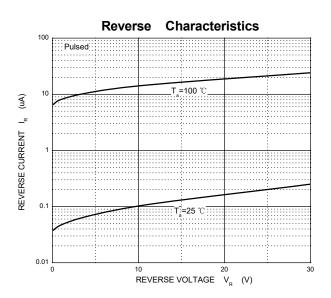
Electrical Characteristics (Ta=25°C unless otherwise specified)

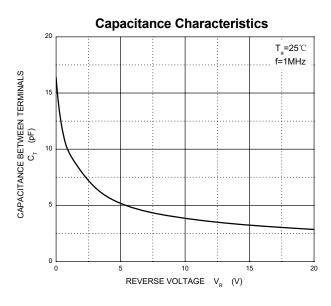
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	30			٧	IR=10 μA
Forward voltage	V_{F}			1.0	V	I _F =200mA
	V _F	0.26		0.33	V	I _F =2mA
	V_{F}			0.45	V	I _F =15mA
Reverse current	I _R			0.5	μA	V _R =25V
Capacitance between terminals	Ст			10	pF	V _R =1.0V,f=1.0MHz
Reverse recovery time	t _{rr}			5	ns	I _F =I _R =10mA
Treverse recovery unite	чr					Irr=0.1XI _R ,R _L =100 Ω

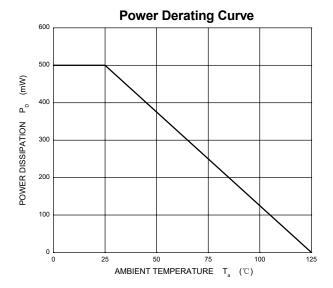


Typical Characteristics



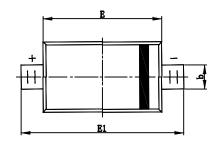


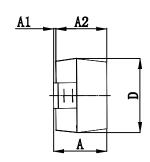


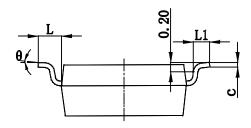




SOD-123 Package Outline Dimensions

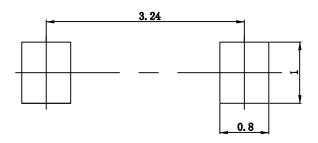






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

SOD-123 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.



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