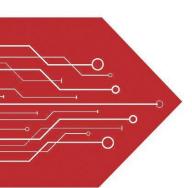
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data speet

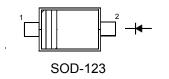






Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance



	RNNING				
PIN DESCRIPTION 1 Cathode		DESCRIPTION			
		Cathode			
٠	2	Anode			

MARK:T4

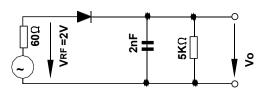
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Non-repetitive Peak Forward Surge Current at t = 1 μs	I _{FSM}	2	Α
Power Dissipation	P _{tot}	400	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	312	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

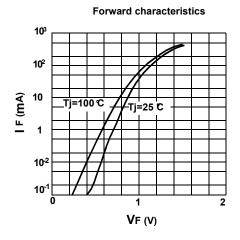
Characteristics at T_a = 25 °C

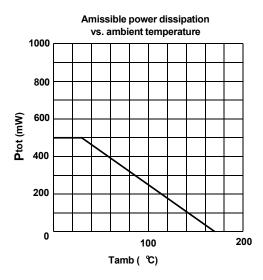
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1 \mu A$	$V_{(BR)R}$	75	-	V
Forward Voltage at I_F = 1 mA at I_F = 50 mA at I_F = 150 mA	V _F		0.715 0.855 1 1.25	>
Peak Reverse Current at V_R = 75 V at V_R = 20 V at V_R = 75 V, T_J = 150 °C at V_R = 25 V, T_J = 150 °C	I _R	- - -	1 25 50 30	μΑ nA μΑ μΑ
Total Capacitance at $V_R = 0 V$, $f = 1 MHz$	Ст	-	2	pF
Reverse Recovery Time at I_{rr} = 0.1 X I_R , I_F = I_R = 10 mA, R_L = 100 Ω	t _{rr}	-	4	ns

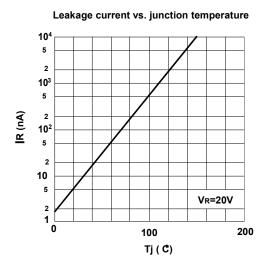


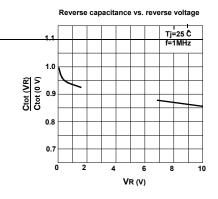


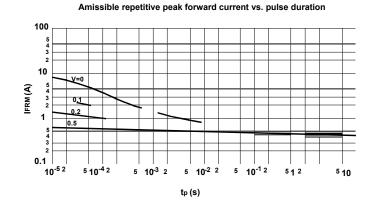
Rectification Efficiency Measurement Circuit







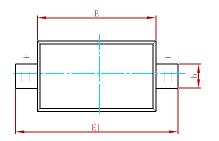


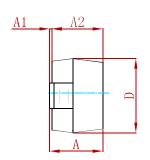


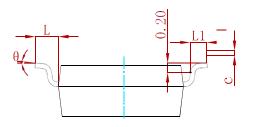




PACKAGE MECHANICAL DATA

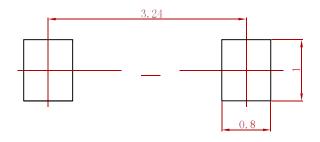






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
Е	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L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

Suggested Pad Layout



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

REEL SPECIFICATION

P/N	PKG	QTY
1N4148W-MS	SOD-123	3000



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