

Features

- Average Rectified Output Current:I_O=200 mA
- Power Dissipation of 350mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MMBD4148A	SOT-23	5H	3000



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

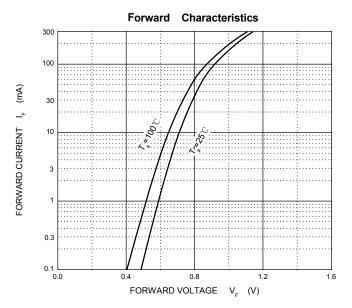
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	72	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I ₀	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T _{STG}	-55~+150	℃

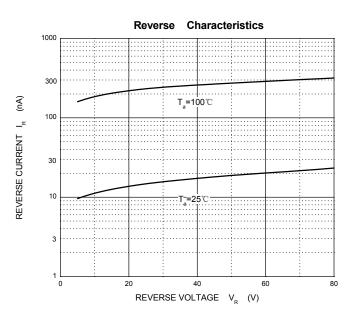
Electrical Characteristics (Ta=25°C unless otherwise specified)

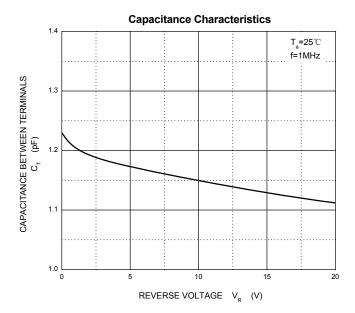
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Poverse breakdown voltage	V (BR) 1	100			V	I _R =100μA
Reverse breakdown voltage	V (BR) 2	75			V	I _R =5μA
Forward voltage	V _F			1	V	I _F =10mA
Reverse current	I _{R1}			5	μA	V _R =75V
Reverse current	I _{R2}			25	nA	V _R =25V
Capacitance between terminals	Ст			4	pF	V _R =0V,f=1MHz
Deverse receiver time				4	ns	I _F =I _R =10mA, V _R =6V,
Reverse recovery time	t _{rr}					Irr=0.1XI _R ,R _L =100Ω

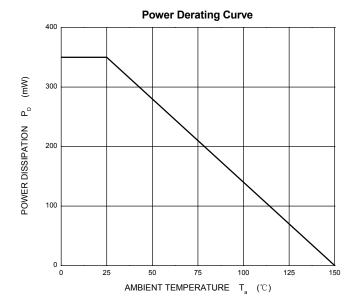


Typical Characteristics



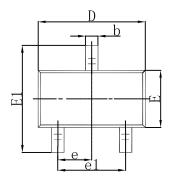


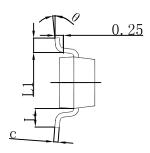


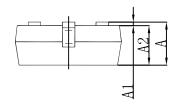




SOT-23 Package Outline Dimensions

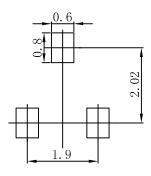






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 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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