

Features

- Average Rectified Output Current:I_O=300 mA
- Power Dissipation of 350mw



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MMBD914LT1G	SOT-23	5H	3000



Maximum Ratings (Ta=25 unless otherwise noted)

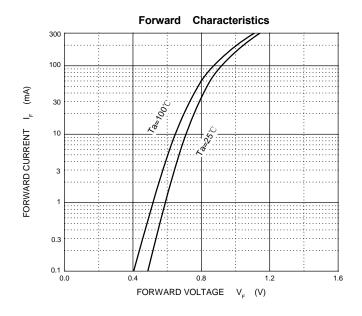
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
Average Rectified Output Current	lo	300	mA
Non-Repetitive Peak Forward Surge C urrent @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$

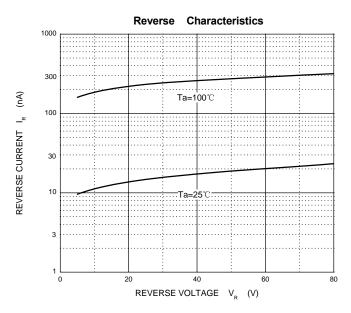
Electrical Characteristics (Ta=25 unless otherwise specified)

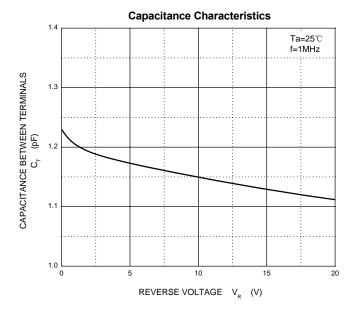
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse Breakdown Voltage	V _(BR)	100			V	I _R =100μA
	V _{F1}			715	mV	I _F =1mA
Company Valtage	V _{F2}			855	mV	I _F =10mA
Forward Voltage	V_{F3}			1000	mV	I _F =50mA
	V _{F4}			1250	mV	I _F =150mA
Reverse Current	I _{R1}			1	uA	V _R =75V
Reverse Current	I _{R2}			25	nA	V _R =20V
Diode Capacitance	C _D			2	pF	V _R =0,f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	$I_F = I_R = 10 \text{mA},$
						$I_{rr}=0.1*I_R$

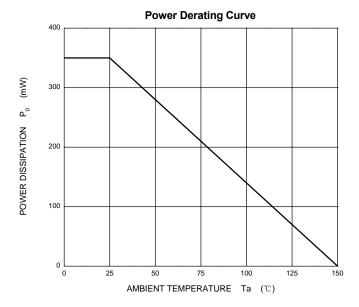


Typical Characteristics



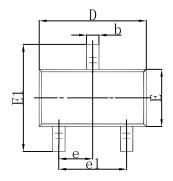


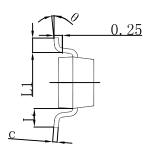


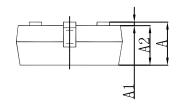




SOT-23 Package Outline Dimensions

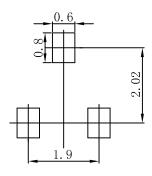






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 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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