Surface Mount Switching Diode **MMBD4148W**

FEATURES

Lead-free

- Fast switching speed.
- High conductance.
- For general purpose switching applications.
- Surface mount package ideally suited for automatic insertion.





SOT-323

APPLICATIONS

- For general purpose switching applications.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMBD4148W	A2	SOT-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Limits**	**Unit**
Non-Repetitive Peak reverse voltage	V_{RM}	85	V
Diode reverse voltage	V_R	75	V
Forward continuous Current	I_F	250	mA
Forward Surge Current t=1μS	I_{FS}	4.5	A
Power Dissipation	P_d	250	mW
Junction temperature	T_j	150	℃
Storage temperature range	T_{stg}	-65-+150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

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Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	I_R= 100μA	75		V
Reverse voltage leakage current	I_R	V_R=75V		1	μA
Forward voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA		715 855 1000 1250	mV
Diode capacitance	C_D	V_R=0V f=1MHz		2	pF
Reverse recovery time	t_{rr}	I_F=I_R=10mA R_L=100Ω		4	nS

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

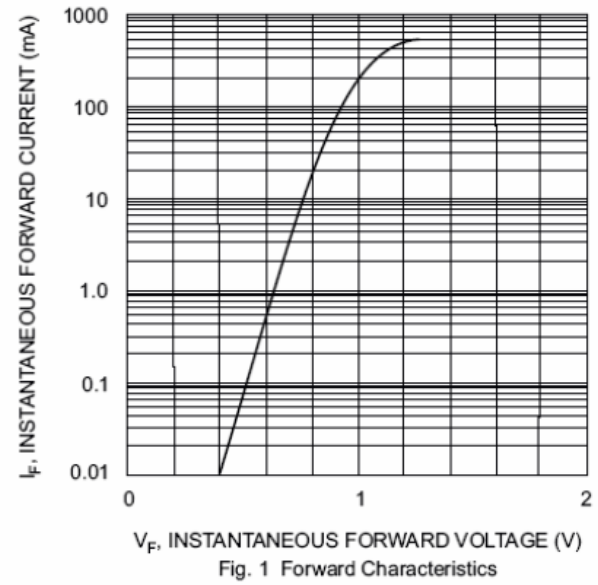


Fig. 1 Forward Characteristics

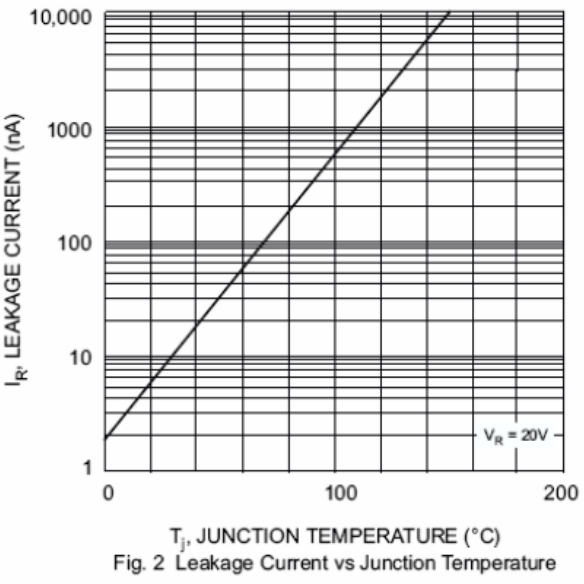
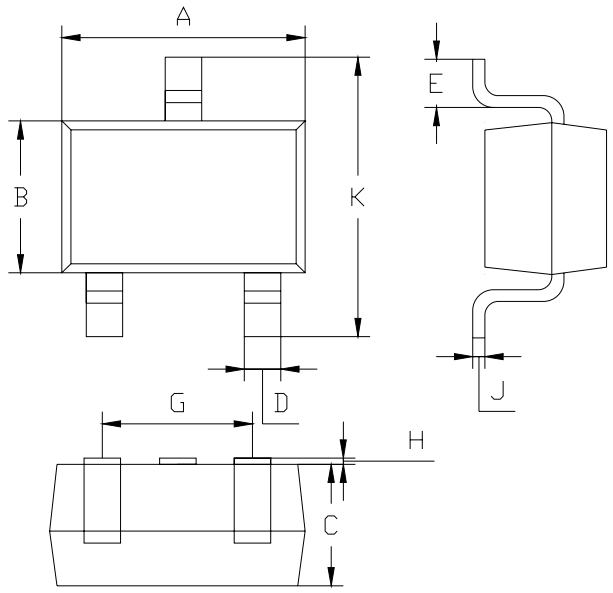


Fig. 2 Leakage Current vs Junction Temperature

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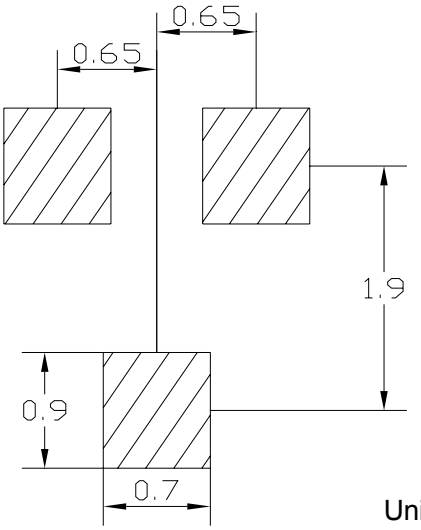
PACKAGE OUTLINE

Plastic surface mounted package SOT-323



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1.0Typical	
D	0.15	0.35
E	0.25	0.40
G	1.2	1.4
H	0.02	0.1
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MMBD4148W	SOT-323	3000/Tape&Reel