

SOT-23 Plastic-Encapsulate Diodes

MMBD4148A/CA/CC/SE SWITCHING DIODE

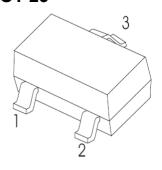
FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

Marking:

MMBD4148A	MMBD4148CA	MMBD4148CC	MMBD4148SE	
1 0 3	1 0 🖊 3	1 0 3	1 0 3	
2 °	2 ○ ◀	2 -	2 ○ ◀	
MARKING:5H	MARKING:D6	MARKING:D5	MARKING: D4	
5 H	D 6	D 5	D4	
5 H	□	D 5	D 4	

SOT-23



Solid dot = Green molding compound device, if none, the normal device

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbo	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
RMS Reverse Voltage	$V_{R(RMS)}$	72	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Io	200	mA
Non-Repetitive Peak Forward Surge Current @ 8.3ms	I _{FSM}	2.0	Α
Power Dissipation	Pd	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature	T _{STG}	-55~+150	${\mathbb C}$

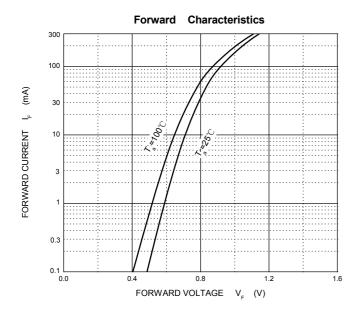
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

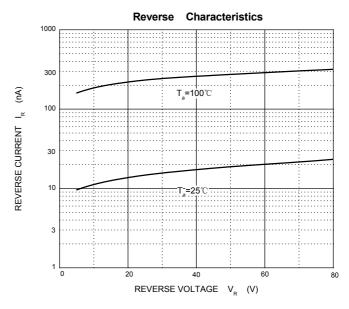
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Develope has already we walke	V (BR) 1	100			V	I _R =100μA
Reverse breakdown voltage	V (BR) 2	75			V	I _R =5μA
Forward voltage	V _F			1	V	I _F =10mA
Reverse current	I _{R1}			5	μA	V _R =75V
Reverse current	I _{R2}			25	nA	V _R =25V
Capacitance between terminals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

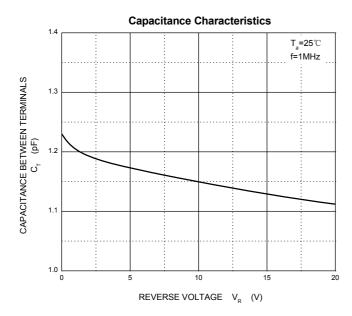


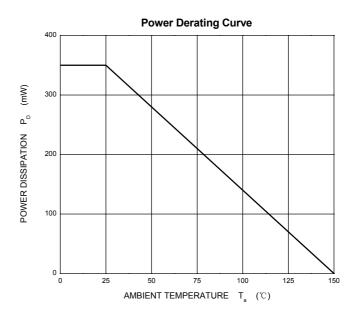


Typical Characteristics







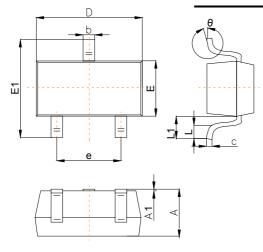


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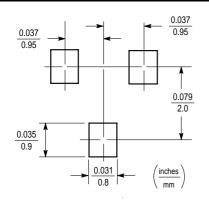
Outlitne Drawing

SOT-23 Package Outline Dimensions



Cumbal	Dimensions In Millimeters			
Symbol	Min	Тур	Max	
Α	1.00		1.40	
A1			0.10	
b	0.35		0.50	
С	0.10		0.20	
D	2.70	2.90	3.10	
Е	1.40		1.60	
E1	2.4		2.80	
е		1.90		
L	0.10		0.30	
L1	0.4			
θ	0°		10°	

Suggested Pad Layout



Note:

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

PACKAGE SPECIFICATIONS

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (pcs)	Box Size (mm)	QTY/Box (pcs)	Carton Size (mm)	Q'TY/Carton (pcs)
SOT-23	7'	330	3000	203×203×195	45000	438×438×220	180000

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