



# MMBD4148-AU

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 100 Volt    **POWER** 250mWatt

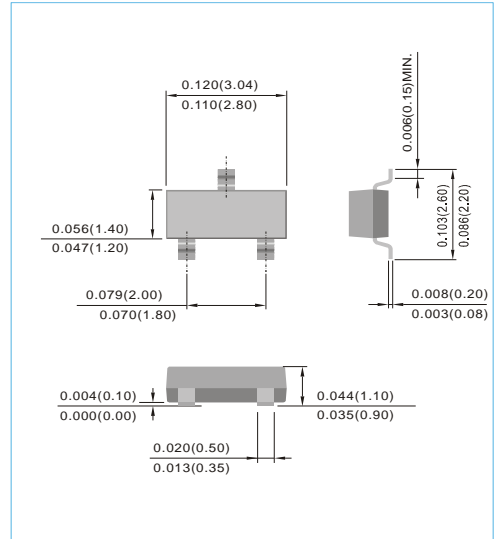
**SOT-23**    Unit : inch(mm)

### FEATURES

- Fast switching Speed.
- Electrically Identical to Stander JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

Case : SOT-23 plastic case.  
 Terminals : Solderable per MIL-STD-750,Method 2026  
 Standard packaging : 8mm tape  
 Approx weight : 0.0003 ounces, 0.0084 grams

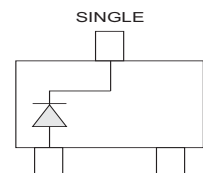


## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>J</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code		A2	
Reverse Voltage	V <sub>R</sub>	75	V
Peak Reverse Voltage	V <sub>RM</sub>	100	V
RMS Voltage	V <sub>RMS</sub>	50	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	75	V
Maximum Average Forward Current at T <sub>A</sub> =25°C	I <sub>AV</sub>	150	mA
Peak Forward Surge Current, 1μs	I <sub>FSM</sub>	4	A
Power Dissipation Derate Above 25°C	P <sub>TOT</sub>	250	mW
Maximum Forward Voltage	V <sub>F</sub>	0.715@0.001A 0.855@0.01A 1.0@0.05A 1.25@0.15A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T <sub>J</sub> =25°C	I <sub>R</sub>	0.025@20V 2.5@75V	μA
Junction Capacitance (Notes1)	C <sub>J</sub>	1.5	pF
Maximum Reverse Recovery Time (Notes2)	T <sub>RR</sub>	4.0	ns
Typical Thermal Resistance	R <sub>θJA</sub>	357	°C / W
Storage Temperature Range	T <sub>J</sub>	-55 to +150	°C

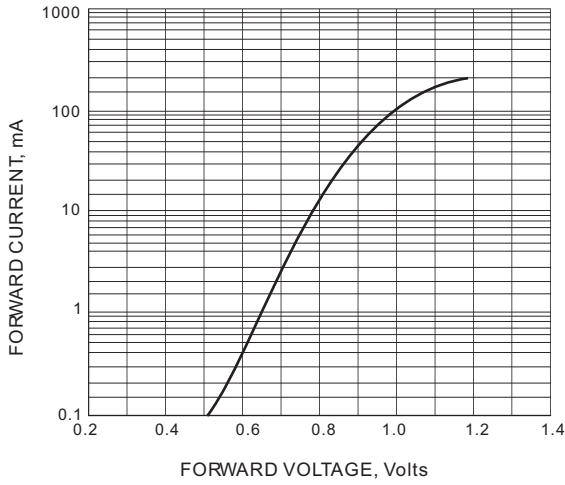
**NOTE:**

1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHZ
2. From I<sub>F</sub>=10mA to I<sub>R</sub>=1mA, V<sub>R</sub>=6Volts, R<sub>L</sub>=100Ω

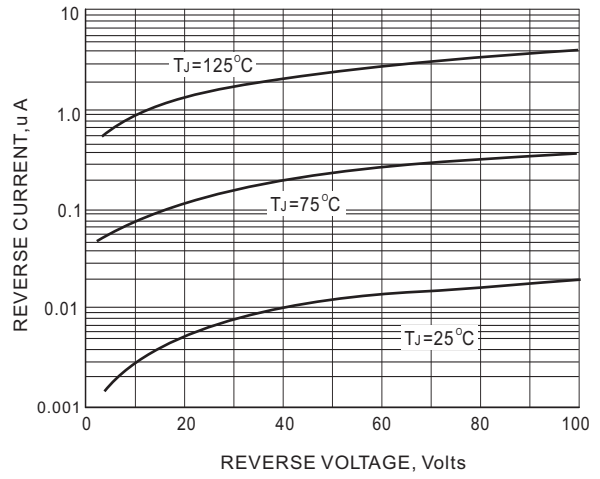




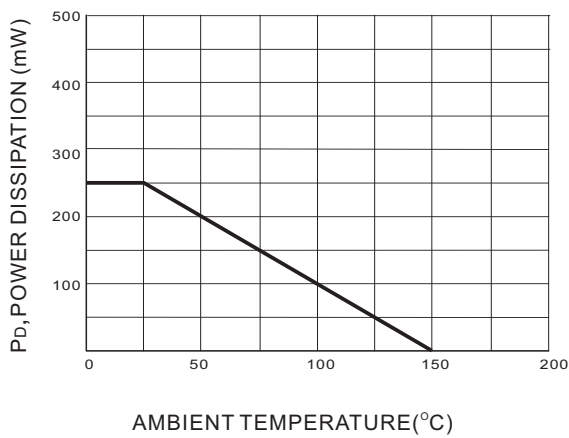
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**FIG. 1-TYPICAL FORWARD CHARACTERISTIC**



**FIG. 2-TYPICAL REVERSE CHARACTERISTICS**

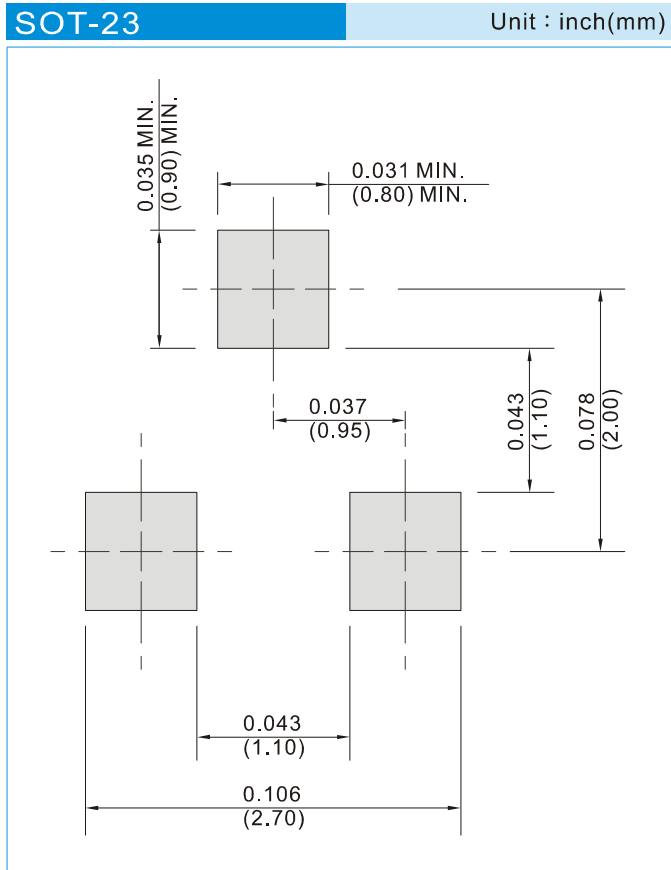


**FIG. 3 POWER DERATING CURVE**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 12K per 13" plastic Reel  
T/R - 3K per 7" plastic Reel



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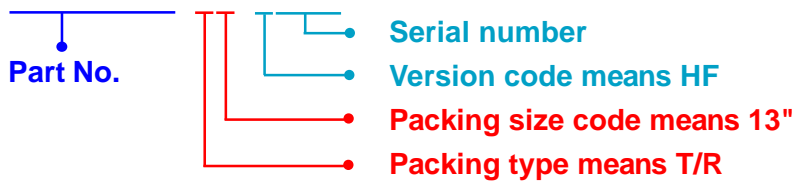
### Part No\_packing code\_Version

MMBD4148-AU\_R1\_000A1

MMBD4148-AU\_R2\_000A1

For example :

**RB500V-40** **R2** **00001**



Packing Code XX				Version Code XXXXX		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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