

MMBD4148-AU

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volt **POWER** 250mWatt

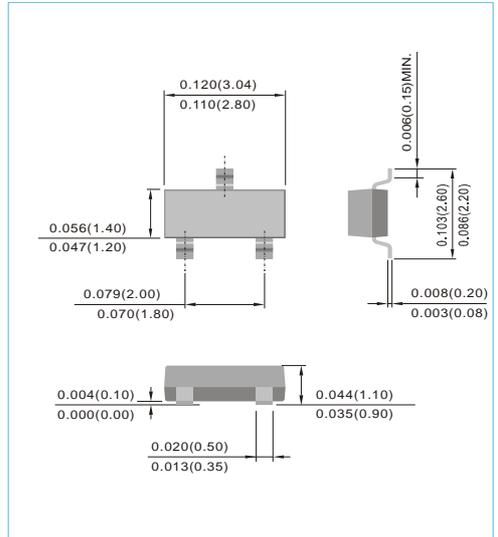
SOT-23 Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standerd 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

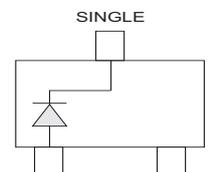


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code		A2	
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
RMS Voltage	V _{RMS}	50	V
Maximum DC Blocking Voltage	V _{DC}	75	V
Maximum Average Forward Current at T _A =25°C	I _{AV}	150	mA
Peak Forward Surge Current, 1μs	I _{FSM}	4	A
Power Dissipation Derate Above 25°C	P _{TOT}	250	mW
Maximum Forward Voltage	V _F	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 _J =25°C	I _R	0.025@20V 2.5@75V	μA
Junction Capacitance (Notes1)	C _J	1.5	pF
Maximum Reverse Recovery Time (Notes2)	T _{RR}	4.0	ns
Typical Thermal Resistance	R _{θJA}	357	°C / W
Storage Temperature Range	T _J	-55 to +150	°C

NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω



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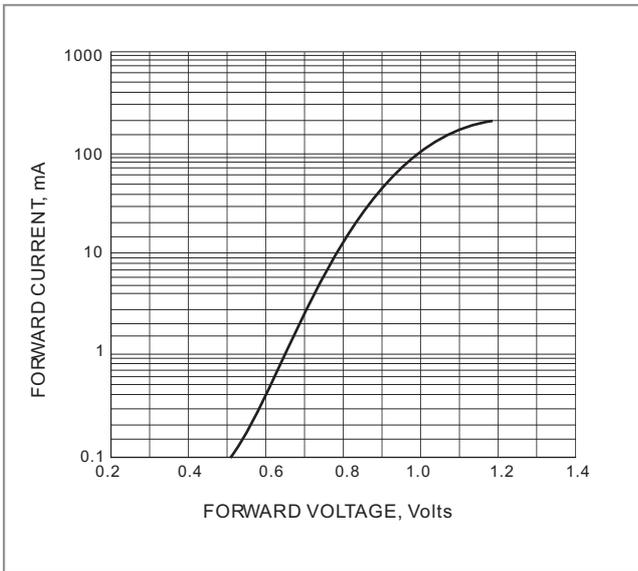


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

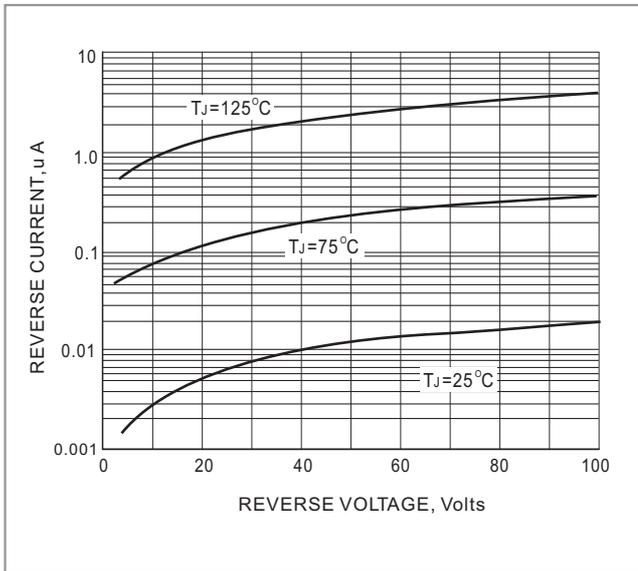


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

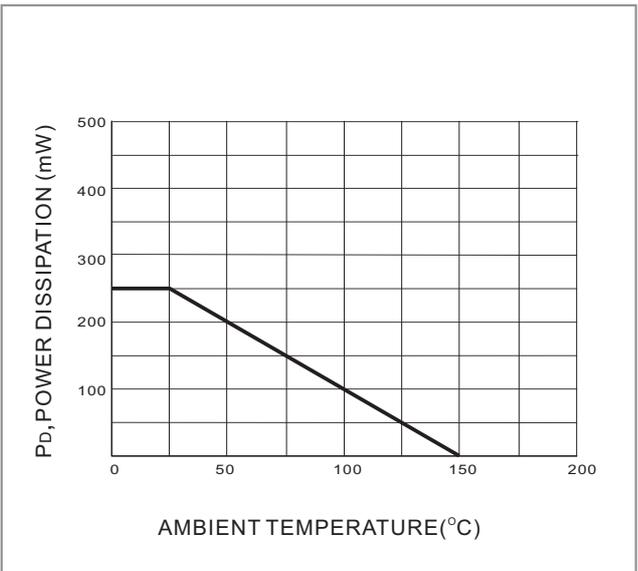


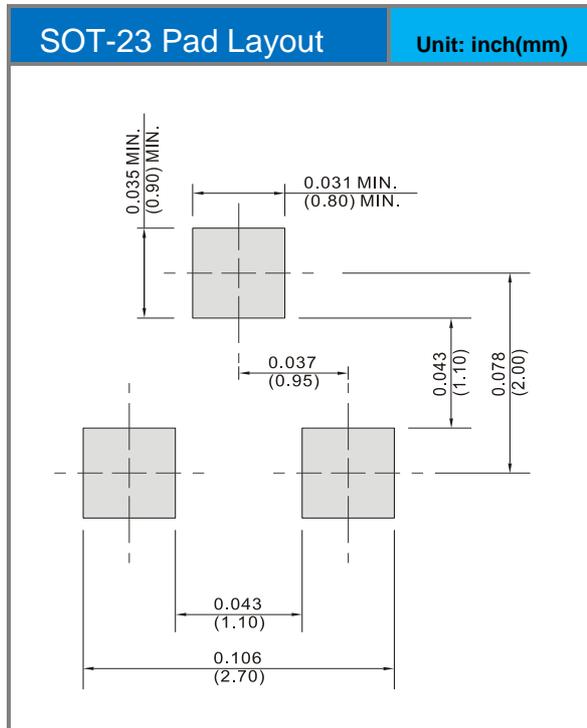
FIG. 3 POWER DERATING CURVE

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
MMBD4148-AU	SOT-23	3K pcs / 7" reel	A2
MMBD4148-AU	SOT-23	12K pcs / 13" reel	A2

Mounting Pad Layout



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