



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volt POWER 250mWatt

FEATURES

- · Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

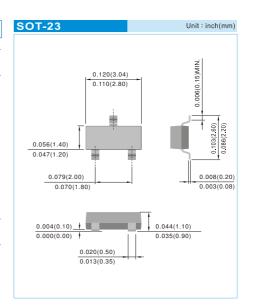
MECHANICAL DATA

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



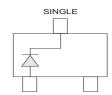
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ = 25°C unless otherwise noted)

PARAMETER	SYMBOL	MMBD4148	MMBD4448	UNITS
Marking Code		A2	А3	
Reverse Voltage	VR	7	٧	
Peak Reverse Voltage	VRM	1	V	
RMS Voltage	VRMS	5	V	
Maximum DC Blocking Voltage	VDC	7	V	
Maximum Average Forward Current at Ta=25°C	lav	1:	m A	
Peak Forward Surge Current, 1.0us	IFSM		А	
Power Dissipation Derate Above 25°C	Ртот	2:	mW	
Maximum Forward Voltage	VF	0.715@0.001A 0.855@0.01A 1.0@ 0.05A 1.25@0.15A	0.72 / 0.005A 1.0 / 0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	lr	0.025@20V 2.5@75V	2.5@75V	uA
Junction Capacitance(Notes1)	CJ	1.5	4.0	pF
Maximum Reverse Recovery (Notes2)	Trr	4.0 4.0		ns
Typical Thermal Resistance	RθJA	3:	°C / W	
Storage Temperature Range	TJ	-55 to	°C	

NOTE:

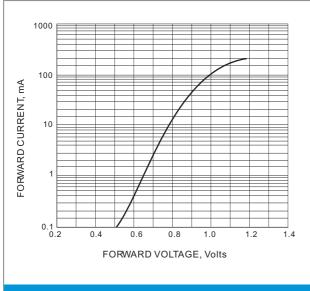
1. CJ at VR=0, f=1MHZ

2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω









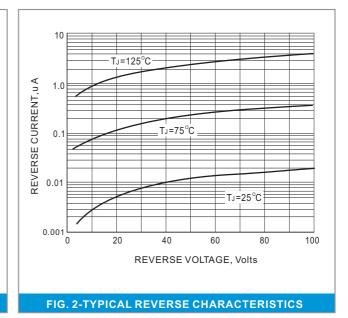
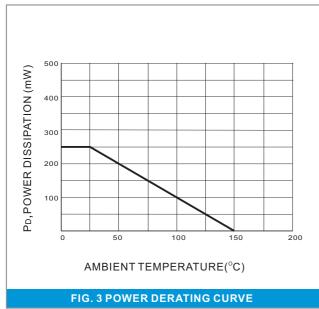


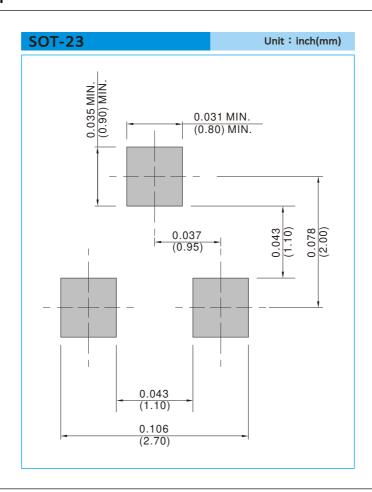
FIG. 1-TYPICAL FORWARD CHARACTERISTIC







MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

MMBD4148_R1_00001 MMBD4148_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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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