

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts POWER 200mWatts

FEATURES

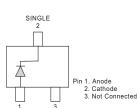
- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

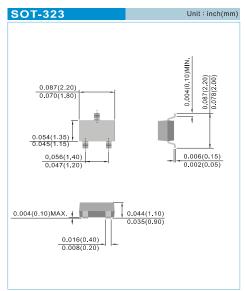
MECHANICAL DATA

Case: SOT-323 plastic case.

Terminals: Solderable per MIL-STD-750, Method 2026

Standard packaging : 8mm tape Approx weight : 0.005 grams





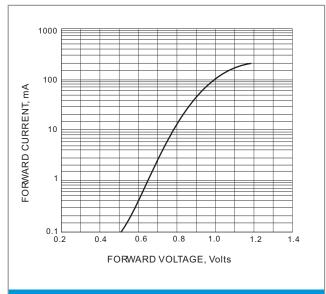
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ=25°C unless otherwise noted)

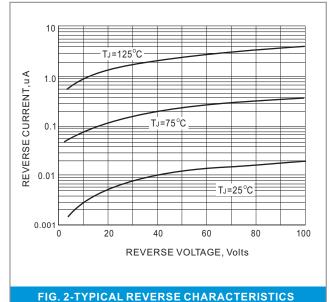
PARAMETER	SYMBOL	MMBD4148W	MMBD4448W	BAS16W	UNITS
Marking Code		A2	А3	A6	
Reverse Voltage	VR	75		V	
Peak Reverse Voltage	VRM	100		V	
RMS Voltage	VRMS	50		V	
Maximum DC Blocking Voltage	VDC	75		V	
Maximum Average Forward Current at TA=25°C	Lav	150		mA	
Peak Forward Surge Current, 1μs	I FSM	4		А	
Power Dissipation Derate Above 25°C	Ртот	200		mW	
Maximum Forward Voltage	VF	0.715@0.001A 0.855@0.01A 1@ 0.05A 1.25@0.15A	0.72 / 0.005A 1 / 0.1A	0.855 / 0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	IR	0.025@20V 2.5@75V	2.5@75V	1@75V	μА
Junction Capacitance (Note1)	Cı	1.5	4	2	pF
Maximum Reverse Recovery (Note2)	Trr	4	4	6	ns
Typical Thermal Resistance	RθJA	640			°C / W
Operation and Storage Temperature Range	Τυ	-55 to +150			°C

NOTE:

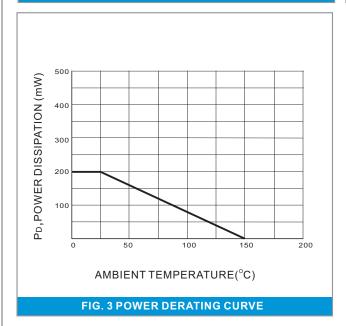
- 1. CJ at $V_R=0$, f=1MHZ
- 2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω









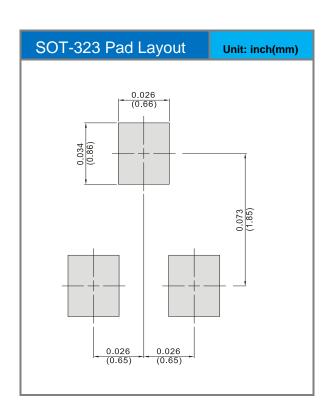




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
MMBD4148W	SOT-323	3K pcs / 7" reel	A2	
MMBD4148W	SOT-323	12K pcs / 13" reel	A2	
MMBD4448W	SOT-323	3K pcs / 7" reel	А3	
MMBD4448W	SOT-323	12K pcs / 13" reel	А3	
BAS16W	SOT-323	3K pcs / 7" reel	A6	
BAS16W	SOT-323	12K pcs / 13" reel	A6	

Mounting Pad Layout





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