

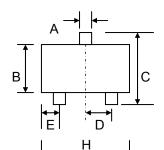
MMBD2837 & MMBD2838

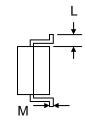
SURFACE MOUNT FAST SWITCHING DIODE



Features

- Dual Diode Common Cathode
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0





Mechanical Data

Case: SOT-23, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

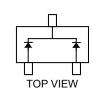
Polarity: See Diagram

Weight: 0.008 grams (approx.)

Mounting Position: Any

Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



SOT-23				
Dim	Min	Max		
Α	0.30	0.50		
В	1.19	1.40		
С	2.10	2.50		
D	0.89	1.05		
Е	0.45	0.61		
G	1.78	2.05		
Н	2.65	3.05		
J	0.013	0.15		
K	0.89	1.10		
L	0.45	0.61		
М	0.076	0.178		
All Dimensions in mm				

Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	MMBD2837	MMBD2838	Unit
Non-Repetitive Peak Reverse Voltage	VRSM	35	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage VRM VRWM 30 VR		30	50	V
Forward Continuous Current	lF	100		mA
Operating and Storage Temperature Range	Тл, Тѕтс	-55 to +150		°C

Thermal Characteristics

Characteristic	Symbol	MMBD2837	MMBD2838	Unit
Power Dissipation (Note 1)	PD	350		mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	35	57	°C/W

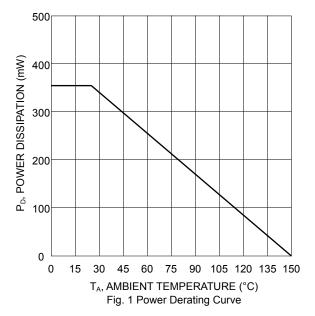
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

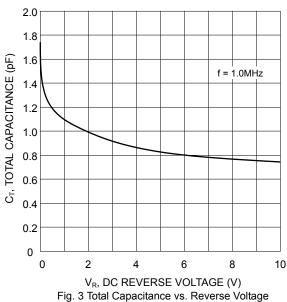
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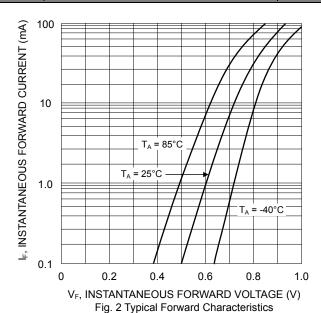


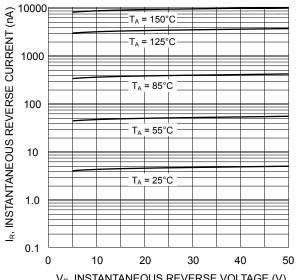
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	MMBD2837	MMBD2838	Unit
Min. Reverse Breakdown Voltage	@ IR = 100μA	V(BR)	35	75	V
Max. Forward Voltage Drop	@ IF = 10mA @ IF = 50mA @ IF = 100mA	VFM	1	.0 .1 .2	V
Peak Reverse Leakage Current	@ VR = 30V @ VR = 50V	IRM	100 —	— 100	nA
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D	4.0		pF
Reverse Recovery Time (IF = IR = 10mA, IRR = 0.1 x IR, RL = 100 Ω)		trr	4.0		nS





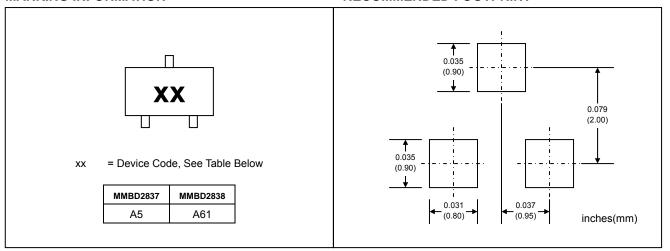




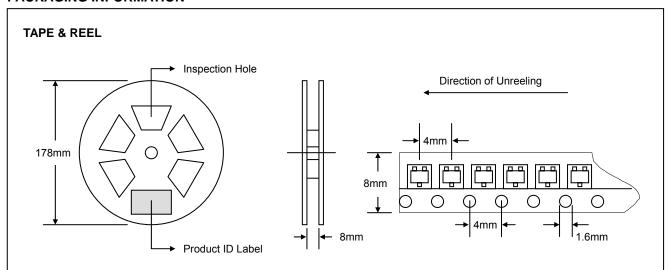


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MMBD2837-T1	SOT-23	3000/Tape & Reel
MMBD2838-T1	SOT-23	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" 2. suffix to part number above. For example, MMBD2837-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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