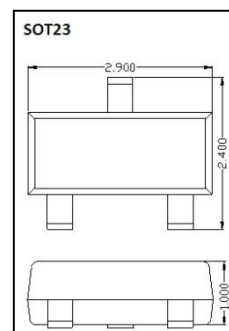


## DATA SHEET

### MMBD1501 THRU MMBD1505

- ◇ Fast Switching Speed
- ◇ Operating and storage junction temperature range  $-65\text{ }^{\circ}\text{C}$  To  $150\text{ }^{\circ}\text{C}$
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC
- ◇ Epoxy meets UL 94 V-0 flammability rating

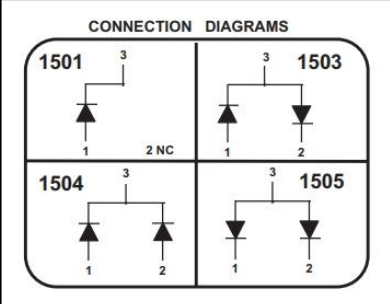


### MAXIMUM RATINGS ( $T_a = 25\text{ }^{\circ}\text{C}$ )

Symbol	Parameter	Value	Units
$V_{IV}$	Working Inverse Voltage	180	V
$I_{FM}$	Forward DC Current	600	mA
$I_o$	Average Rectified Current	200	mA
$i_f$	Recurrent Peak Forward Current	700	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient Air	357	$^{\circ}\text{C}/\text{W}$
$P_d$	Power Dissipation	350	mW
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{s}$ @ $t = 10\text{ms}$	1.0	A
		2.0	A

### ELECTRICAL CHARACTERISTICS ( $T_a = 25\text{ }^{\circ}\text{C}$ )

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
$V_F$	Forward Voltage	$I_F=1.0\text{mA}$	0.62		0.75	V
		$I_F=10\text{mA}$	0.72		0.85	
		$I_F=50\text{mA}$	0.8		0.95	
		$I_F=100\text{mA}$	0.83		1.1	
		$I_F=200\text{mA}$	0.87		1.3	
		$I_F=300\text{mA}$	0.9		1.5	
$V_R$	Reverse breakdown voltage	$I_R=5.0\mu\text{A}$	200			V
$I_R$	Reverse voltage leakage current	$V_R=180\text{V}$			10	nA
$C_J$	Typical Junction Capacitance	$V_R=0\text{V}$ , $f=1.0\text{MHz}$		4		pF

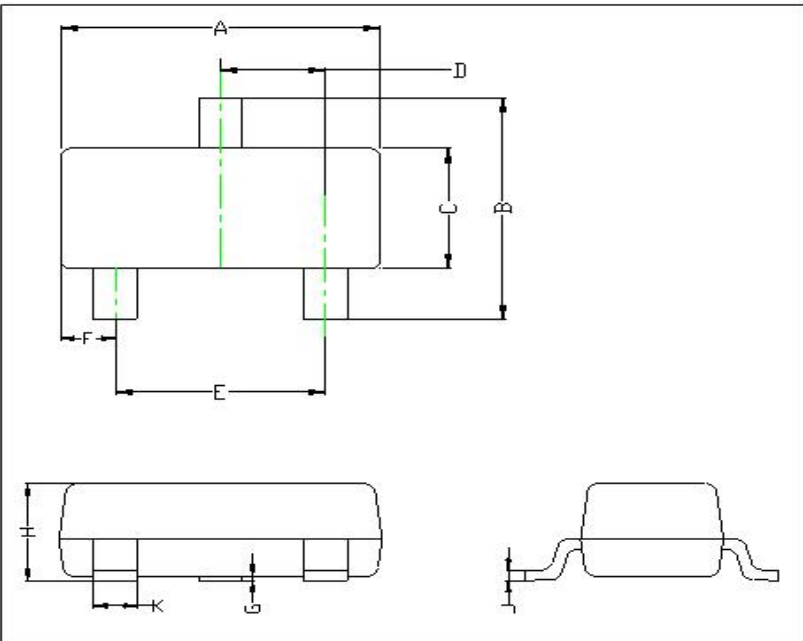
<h3 style="margin: 0;">MARKING</h3> <table style="margin: 0 auto;"> <tr><td style="padding: 5px;">MMBD1501</td><td style="padding: 5px;">11</td></tr> <tr><td style="padding: 5px;">MMBD1503</td><td style="padding: 5px;">13</td></tr> <tr><td style="padding: 5px;">MMBD1504</td><td style="padding: 5px;">14</td></tr> <tr><td style="padding: 5px;">MMBD1505</td><td style="padding: 5px;">15</td></tr> </table>	MMBD1501	11	MMBD1503	13	MMBD1504	14	MMBD1505	15	<h3 style="margin: 0;">CONNECTION DIAGRAMS</h3> 
MMBD1501	11								
MMBD1503	13								
MMBD1504	14								
MMBD1505	15								

### ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
MMBD1501 thru MMBD1504	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

### PACKAGE DIMENSIONS

**Package Outline : SOT23**



Symbol	Dimensions in mm	
	Min.	Max.
A	2.800	3.040
B	2.100	2.640
C	1.200	1.400
D	0.890	1.030
E	1.780	2.050
F	0.450	0.600
G	0.013	0.100
H	0.900	1.110
J	0.090	0.180
K	0.370	0.510

**Note:**  
 1. Halogen free ,EMC  
 2. Pb free solder  
 3. Lead thickness solder plating  
 4. Lead frame CAC-5  
 5. Other Tolerance  $\pm 0.05$   
 6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions  
 7. Unit :mm

**SOT23 Package Outline**

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