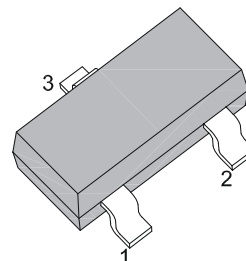


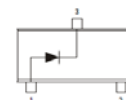
Three Terminals SMD Switching Diodes

Features

- Fast Switching Speed
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS compliant



SOT-23



Mechanical Data

Case:	SOT-23, Plastic Case
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	Approx. 0.008 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	MMBD4148	MMBD4448	Unit	Conditions
	Marking Code	5H/A2	CA2/A3		
V_{RM}	Reverse Voltage	75		V	
V_{RRM}	Peak Reverse Voltage	100		V	
$I_{F(AV)}$	Forward Average Current	200		mA	
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0 μ s	2.0		A	
P_D	Power Dissipation above 25 $^{\circ}\text{C}$	350		mW	
V_F	Forward Voltage	Min	0.62 @ 5mA	V	
		Max	0.72 @ 5mA		
			1.0 @ 100mA		
I_R	Max. Reverse Current	0.025	0.025	μ A	$V_R=20\text{V}$
		5.0	2.5		$V_R=75\text{V}$
C_D	Diode Capacitance	4.0		pF	$V_R=0\text{V}$, $f=1\text{MHz}$
T_{rr}	Reverse Recovery Time	4.0		ns	$I_F=10\text{mA}$, $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150		$^{\circ}\text{C}$	

Three Terminals SMD Switching Diodes

MMBD4148 MMBD4448

Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

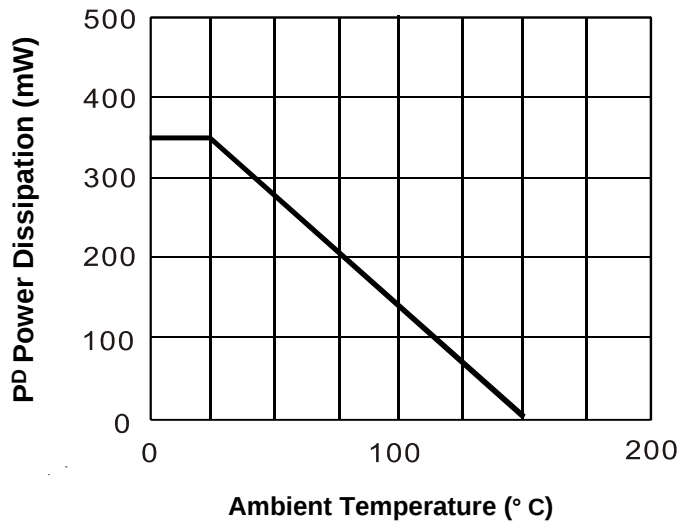


Fig.2- Typical Instantaneous Forward Characteristics

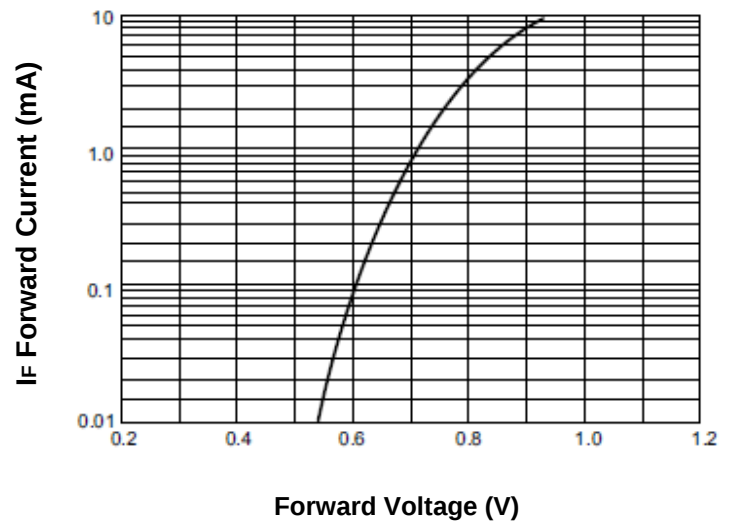


Fig.3- Junction Capacitance

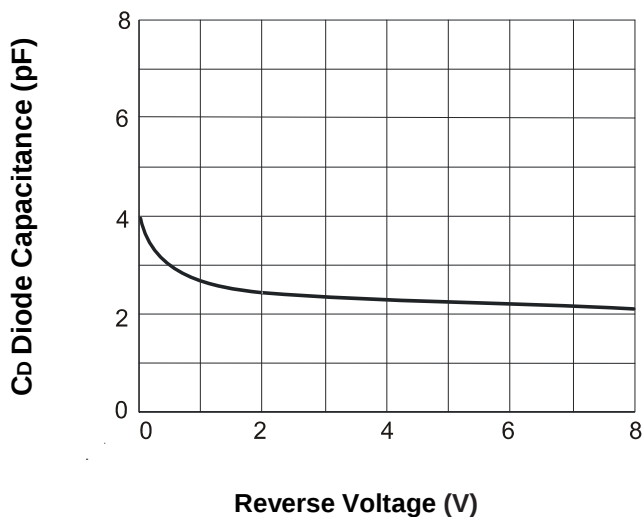
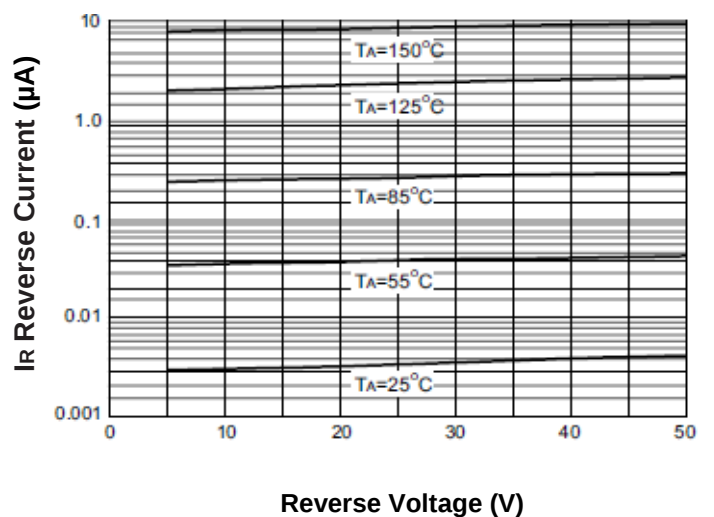


Fig.4- Typical Instantaneous Reverse Characteristics

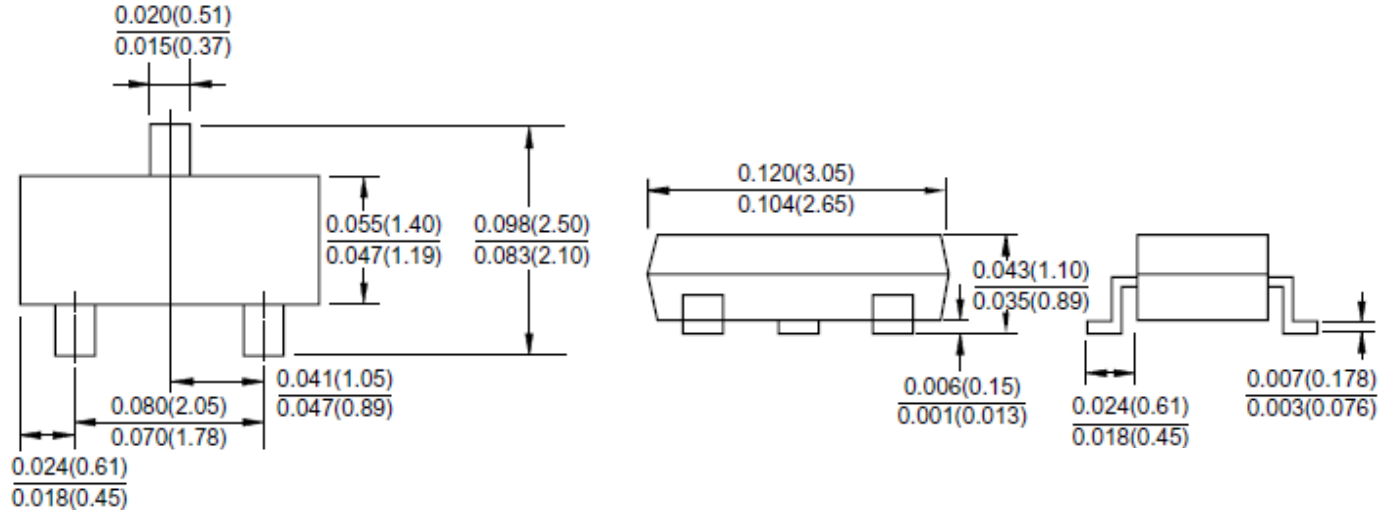


Three Terminals SMD Switching Diodes

MMBD4148 MMBD4448

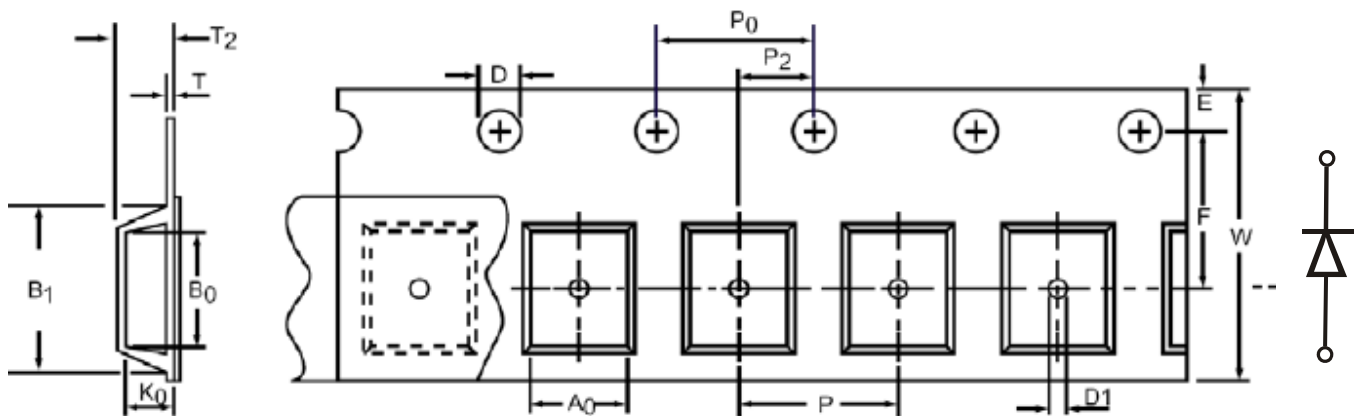
Dimensions in inch (mm)

SOT-23



Packing Information:

Carrier Tape Dimensions (in mm)

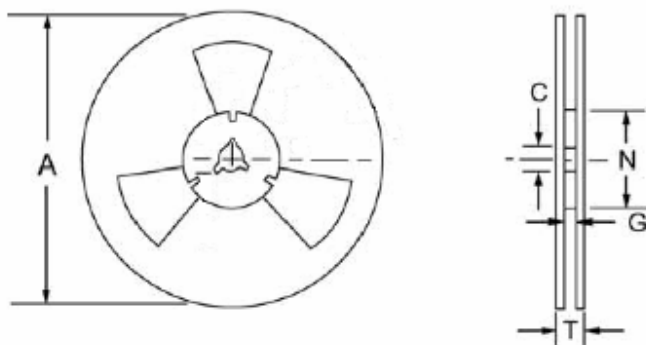


Product Type	D	P0	P	W	E	A0	B0
	1.55±0.05	4.0±0.10	4.0±0.10	8.0+0.3/-0.1	1.75±0.10	3.15±0.10	2.77±0.10
SOT- 23	B1	T	T2	D1	F	K0	P2
	4.0±0.10	0.20±0.05	1.4 max	1.0±0.05	3.5±0.05	1.0±0.10	2.0±0.05

Three Terminals SMD Switching Diodes

MMBD4148 MMBD4448

Reel Dimensions (in mm)



A	C	G	N	T
178.0	13.0+0.5/-0.2	9.9 max.	54.5±0.5	14.4 max.
330.0	13.0+0.5/-0.2	9.9 max.	100.0±0.5	14.4 max.

Packing Quantity

Quantity	PCS per Reel	PCS per Inner Carton Box	PCS per Outer Carton Box
TR70 Tape & Reel	3,000	12,000	192,000
		51,000	408,000
TR30 Tape & Reel	10,000	10,000	300,000

Carton Size Information: (in inch)

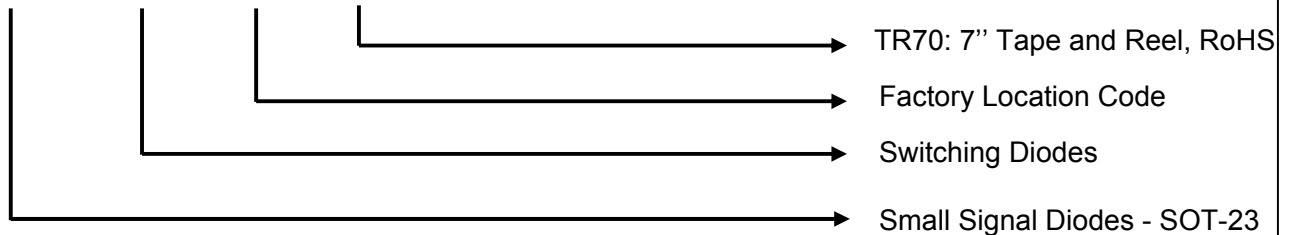
Size	PCS per Reel	Inner Cartoon Box Size	Outer Cartoon Box Size
TR70 Tape & Reel	3,000	3"x7.5"x7.5"	17"x15"x13.5"
		9"x9"x9"	19"x19"x19"
TR30 Tape & Reel	10,000	13"x13"x0.5"	17"x15"x13.5"

Three Terminals SMD Switching Diodes

MMBD4148 MMBD4448

How to Order

MMBD - 4148 - XX - TR70



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