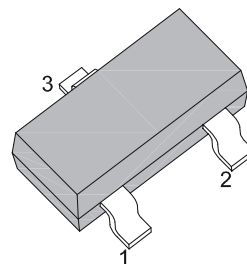


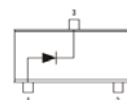
Three Terminals SMD Switching Diode

Features

- Fast switching speed
- Very fast reverse recovery time
- Low capacitance
- Surface mount package ideally suited for automatic insertion
- 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 ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	MMBD914	Unit	Conditions
	Marking Code	5D / T1		
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	500	mA	
P_D	Power Dissipation	225	mW	Note
R_{thJA}	Thermal Resistance from Junction to Ambient	556	$^{\circ}\text{C/W}$	
T_J	Junction Temperature	150	$^{\circ}\text{C}$	
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}\text{C}$	

Note: FR-5 Board=1.0"x0.75"x0.62".

Three Terminals SMD Switching Diode

MMBD914

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

Symbol	Description	Min.	Max.	Unit	Conditions
V_F	Forward Voltage	---	1.0	V	I _F =10mA
V_{BR}	Reverse Breakdown Voltage	100	---	V	I _R =100μA
I_R	Reverse Current	---	0.025	μA	V _R =20V
		---	5.0		V _R =75V
T_{rr}	Reverse Recovery Time	---	4.0	nS	I _F =10mA, I _R =10mA, I _{rr} =1mA, R _L =100Ω
C_D	Diode Capacitance	---	4.0	pF	V _R =0V, f=1MHz

Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

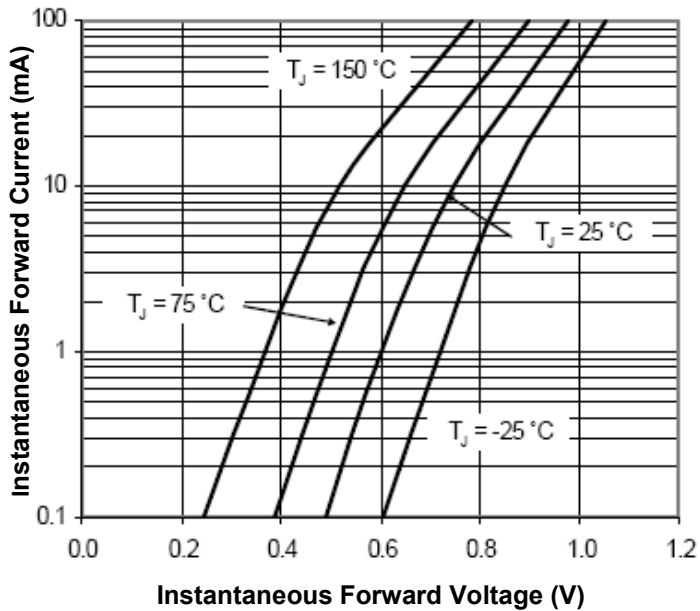
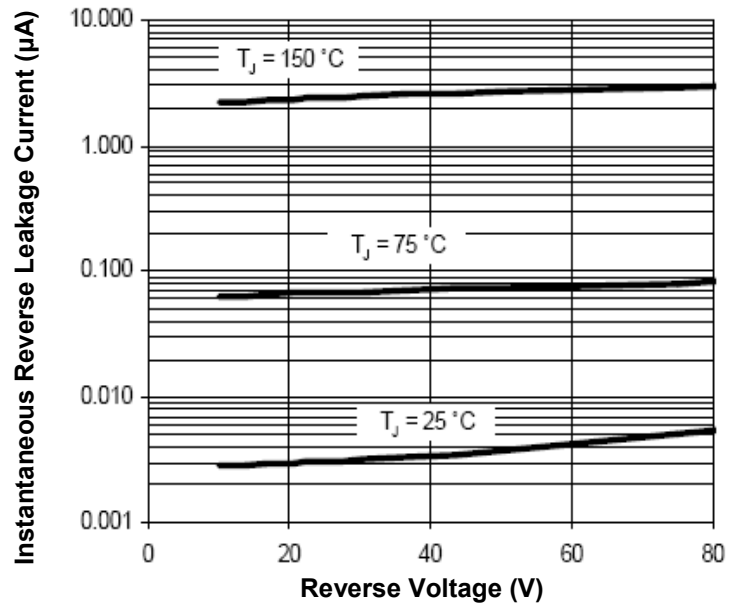


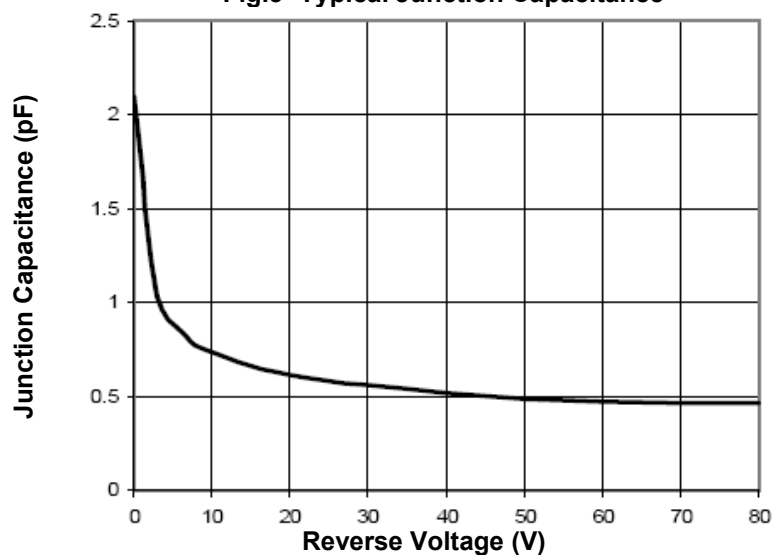
Fig.2-Typical Reverse Characteristics



Three Terminals SMD Switching Diode

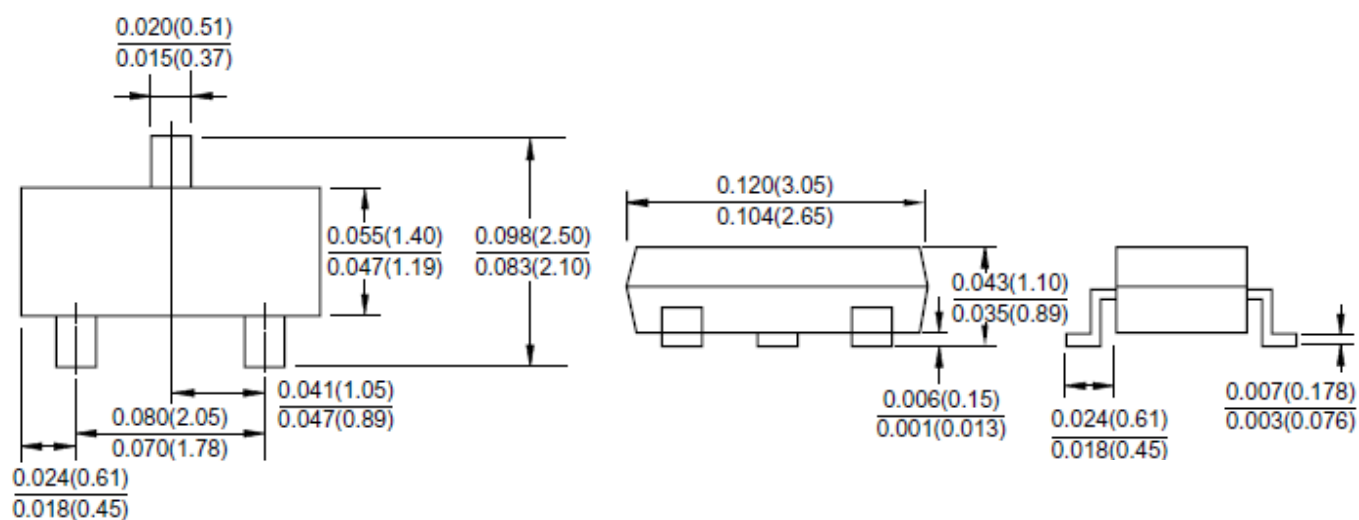
MMBD914

Fig.3- Typical Junction Capacitance



Dimensions in inch (mm)

SOT-23

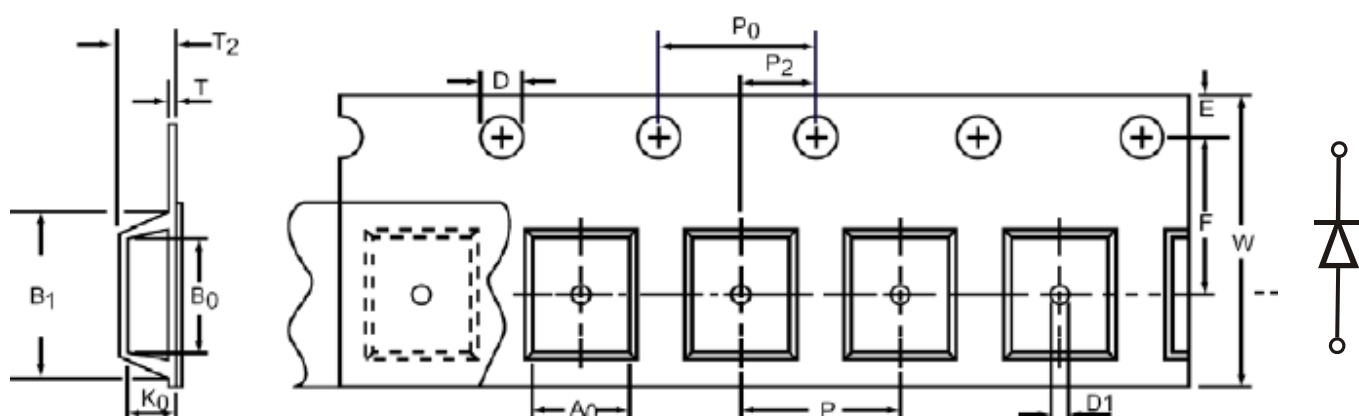


Three Terminals SMD Switching Diode

MMBD914

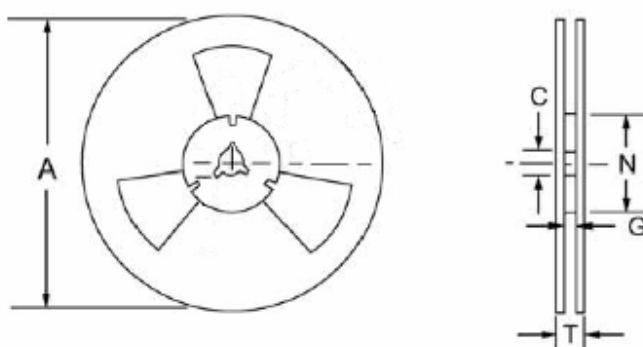
Packing Information:

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

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.

Three Terminals SMD Switching Diode

MMBD914

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"

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