



THE DATASHEET OF MMBD914TR



MMBD914

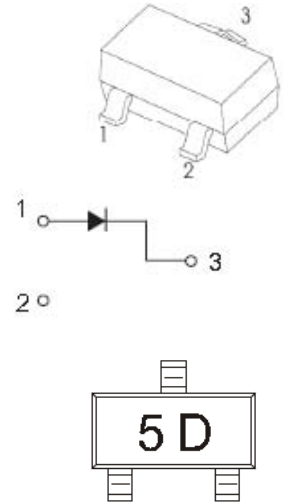
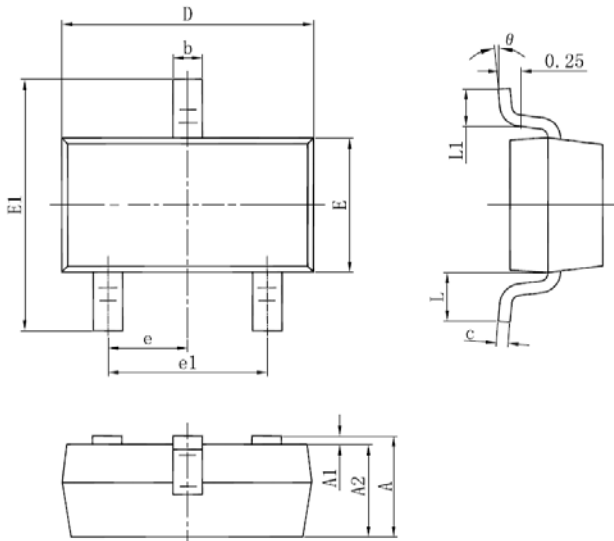
SURFACE MOUNT FAST SWITCHING DIODE

Features:

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material –UL Recognition Flammability Classification 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

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: 5D


Mechanical Dimensions: In mm/Inches


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23

Note: If date code is before 2016 year, please contact with factory about marking.

- China - Germany - Korea - Singapore - United States •
- <http://www.smc-diodes.com> - sales@smc-diodes.com •



Ordering Information:

Device	Package	Shipping
MMBD914	SOT-23 (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

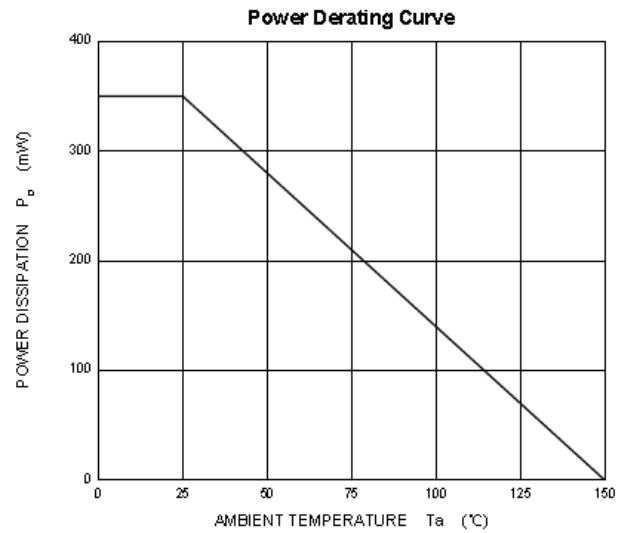
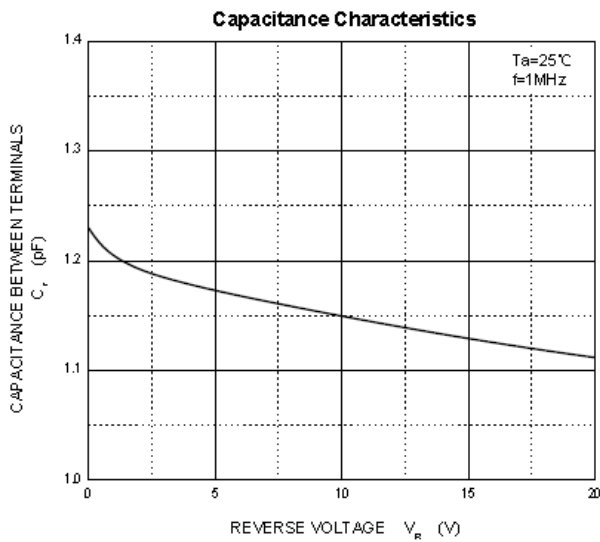
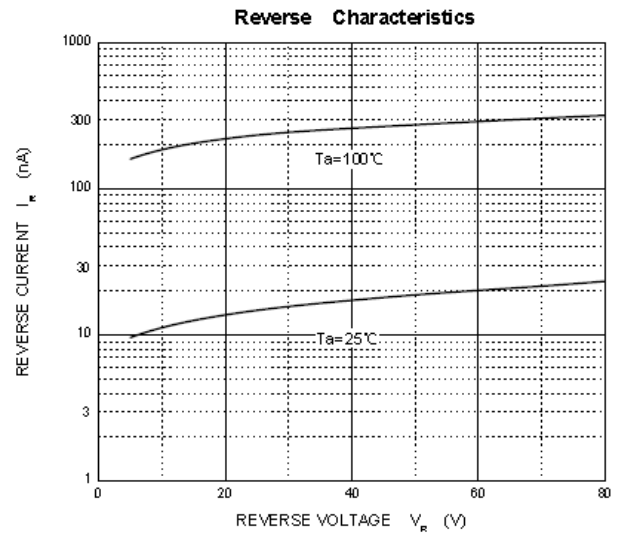
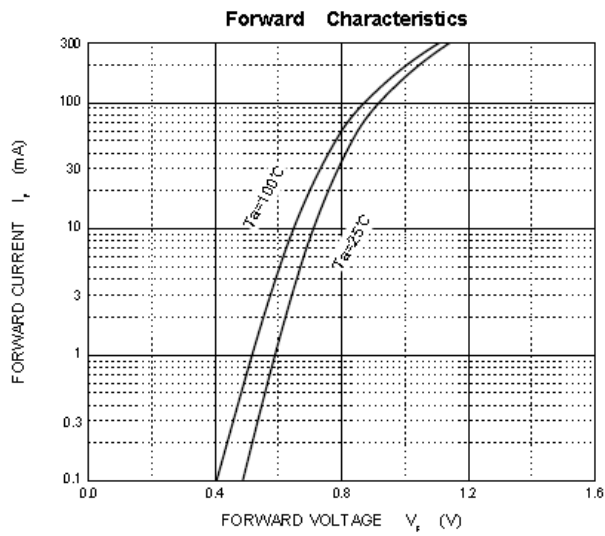
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
Average Rectified Output Current	I _O	300	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	P _d	350	mW
Typical Thermal Resistance, Junction to Ambient	R _{θJA}	357	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	V _F	-	0.715 0.855 1.00 1.25	V	@I _F =1mA @I _F =10mA @I _F =50mA @I _F =150mA
Reverse Leakage Current	I _R	-	1.0 25	uA nA	@V _R =75V @V _R =20V
Junction Capacitance	C _j	-	2.0	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	t _{rr}	-	4.0	ns	I _F =I _R =10mA, I _{RR} =0.1 × I _R

Note: 1. Device mounted on fiberglass substrate 40×40×1.5mm





MMBD914

Technical Data
Data Sheet N0599, Rev. A

Green Products

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