

DATA SHEET

200mW

MMBD914WS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE	100Volts		POWER
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FEATURES

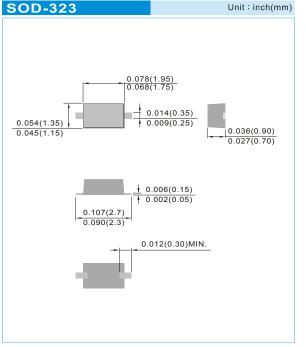
Very fast reverse recovery (Trr < 2.0 ns typical)

Low capacitance (2pF @ 0V typical)

Surface mount package ideally suited for automatic insertion

Lead free in comply with EU RoHS 2011/65/EU directives.

Green molding compound as per IEC61249 Std. . (Halogen Free)



MECHANICAL DATA

Case: SOD-323 plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx weight: 0.00014 ounces, 0.0041 grams

Marking: T1

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V _R	100	V
Peak Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	$I_{\rm F}$	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0 us	I _{FSM}	4.0	А

THERMAL CHARACTERISTICS

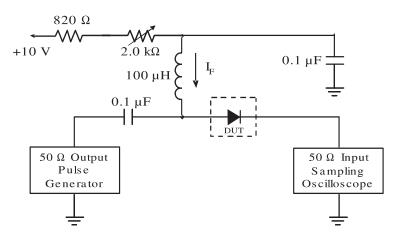
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation ⁽¹⁾	P _{TOT}	200	mW
Thermal Resistance, Junction to Ambient ⁽¹⁾	R ja	625	/W
Junction Temperature	TJ	-55 to 150	
Storage Temperature	T _{STG}	-55 to 150	

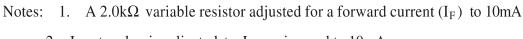
Note 1. FR-4 Board = $70 \times 60 \times 1$ mm.



PARAMETER	SYMBOL	TEST CONDITION	MIN.	ТҮР.	MAX.	UNIT
Reverse Breakdown Voltage	V _(BR)	I _R =100uA	100	-	-	V
Reverse Current	IR	$V_R=20V$	-	-	0.025	uA
		$V_R = 75V$	-	-	5.0	
Forward Voltage	$V_{\rm F}$	I _F =10mA	-	-	1.0	V
Total Capacitance	CT	$V_R=0V, f=1MHz$	-	-	4.0	pF
Reverse Recovery Time (Figure 1)	t _{rr}	$I_{F}=I_{R}=10mA, R_{L}=100\Omega$	-	-	4.0	ns

ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise noted)



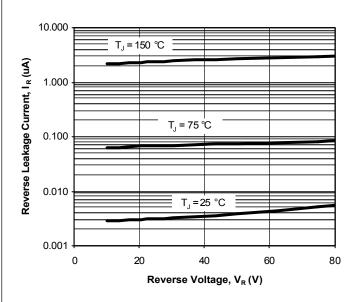


2. Input pulse is adjusted to $I_{R(peak)}$ is equal to 10mA

Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT



ELECTRICAL CHARACTERISTIC CURVES



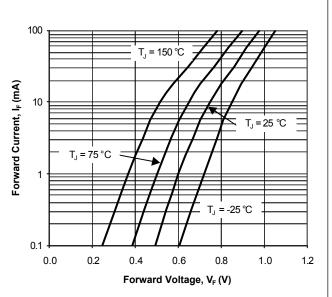
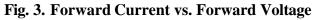


Fig. 2. Reverse Current vs. Reverse Voltage



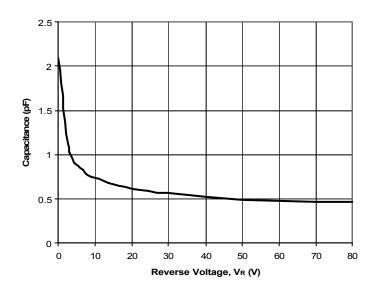
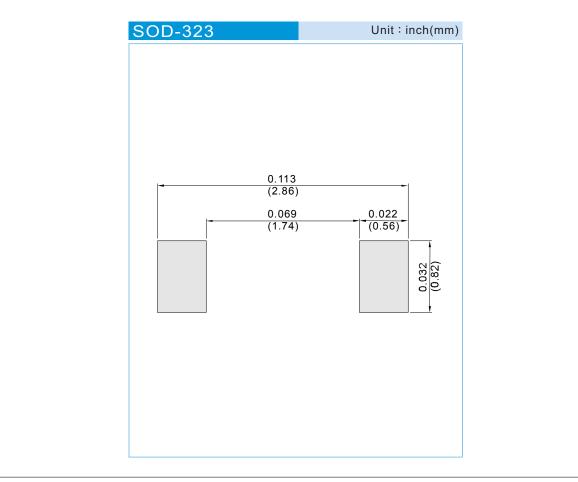


Fig. 4. Capacitance vs. Reverse Voltage



MMBD914WS





ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel



SEMI CONDUCTOR	
MMBD914WS	
Part No_packing code_Version MMBD914WS_R1_00001 MMBD914WS_R2_00001	

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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