

High-speed switching diode

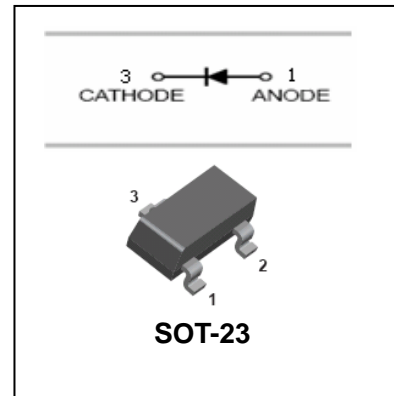
MMBD914

FEATURES

- Fast switching speed.
- Surface mount package ideally suited for automatic insertion.
- For general purpose switching applications.
- High conductance.



Lead-free



APPLICATIONS

- High speed switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMBD914	5D	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Peak repetitive peak reverse voltage	V_{RRM}	75	V
Working peak reverse voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Forward Continuous Current	I_{FM}	200	mA
Power Dissipation	P_d	225	mW
Operating Junction Temperature Range	T_j	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

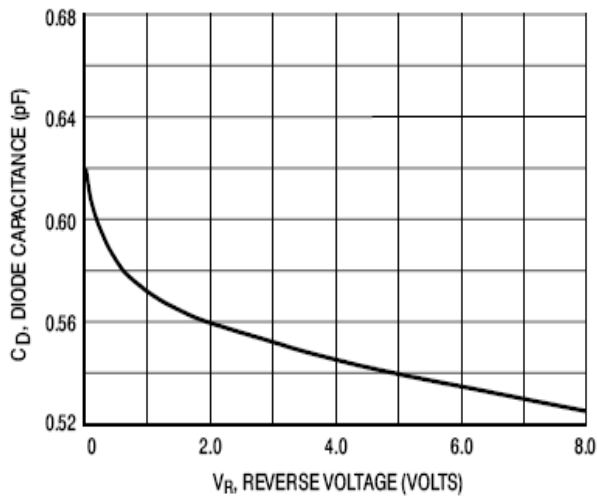
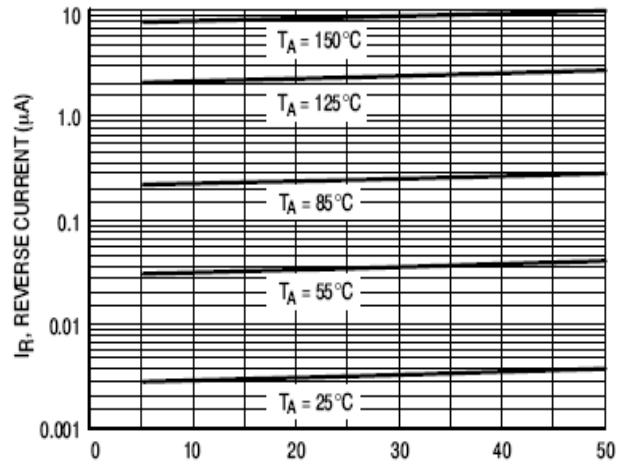
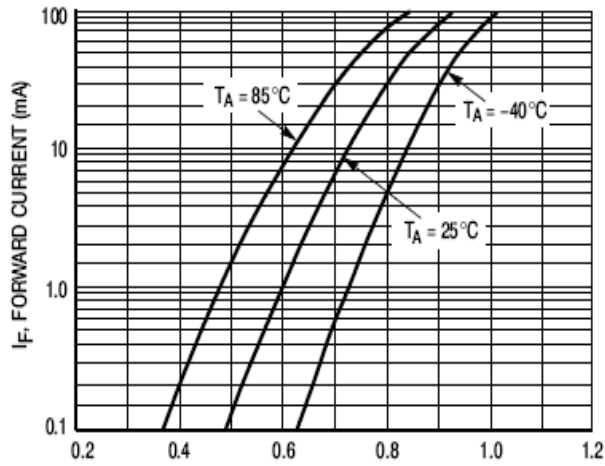
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75		V	$I_R=100\mu A$
Forward Voltage	V_{F1}		715	mV	$I_F=1mA$
	V_{F2}		855		$I_F=10mA$
	V_{F3}		1000		$I_F=50mA$
	V_{F4}		1250		$I_F=150mA$
Reverse Current	I_R		2.5	μA	$V_R=75V$
Reverse Recovery Time	t_{rr}		4	nS	$I_F=I_R=10mA$ $V_R=5V$ $R_C=100\Omega$
Diode Capacitance	C_D		20	pF	$V_R=0V, f=1MHz$

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



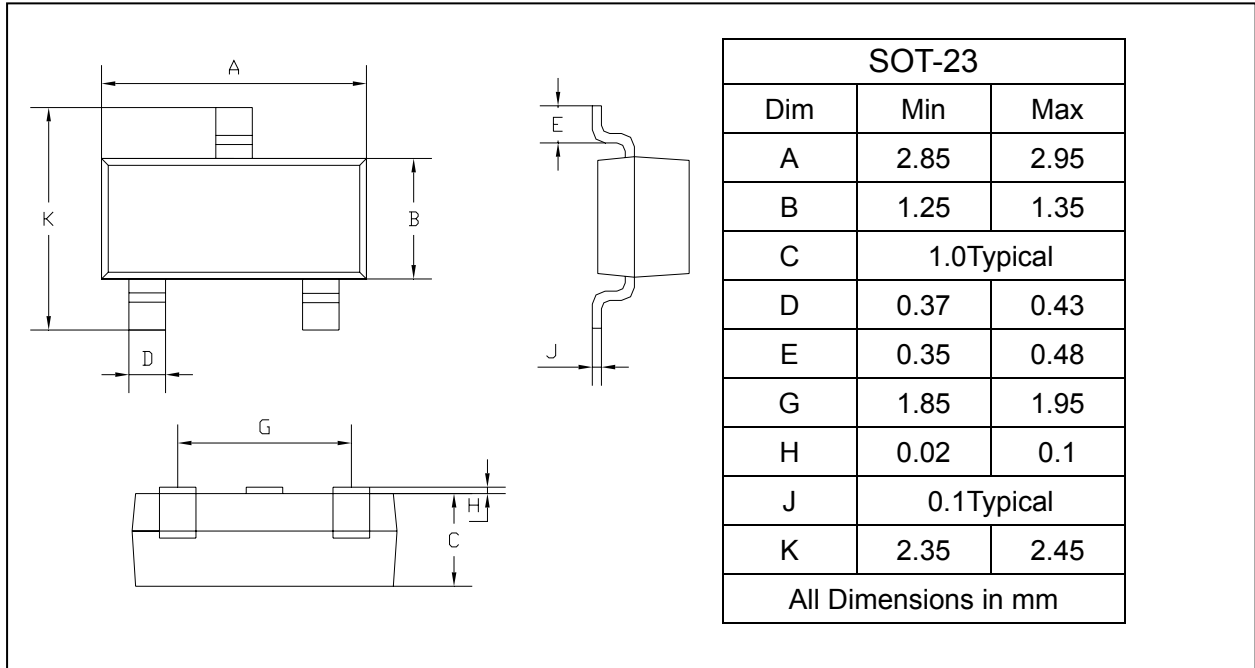
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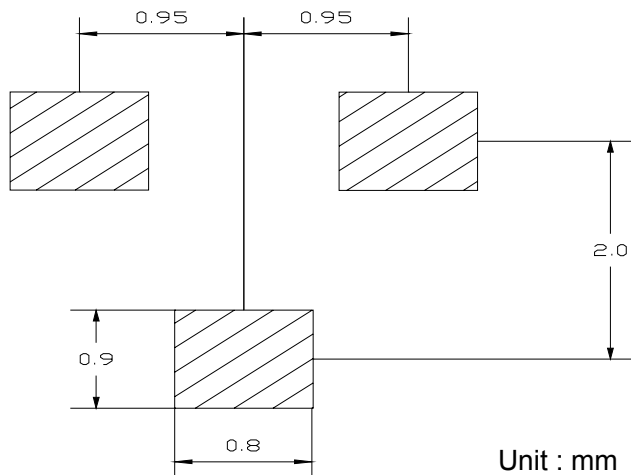
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
MMBD914	SOT-23	3000/Tape&Reel