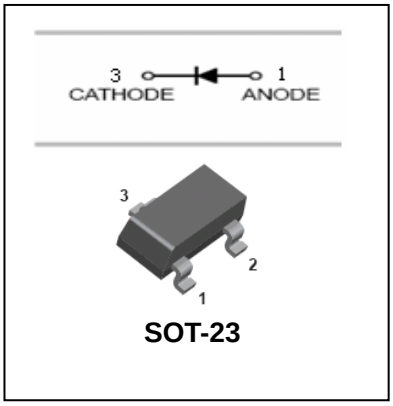
High-speed switching diode MMBD914

FEATURES

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

Lead-free



SOT-23

APPLICATIONS

- High speed switching.

ORDERING INFORMATION

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

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

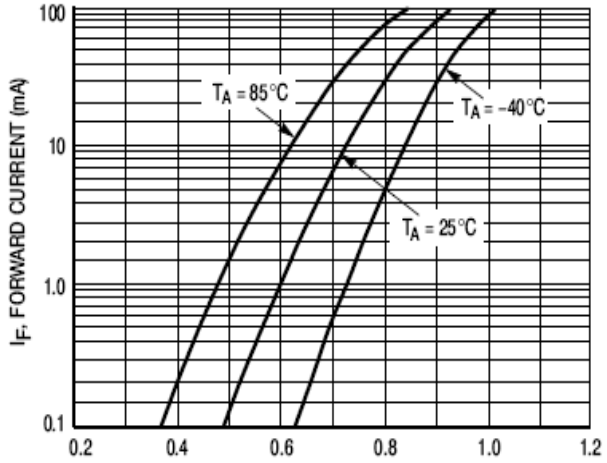
Characteristic	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	75	V
Forward Continuous Current	I_{FM}	200	mA
Power Dissipation	P_d	225	mW
Operating Junction Temperature Range	T_j	150	℃
Storage Temperature Range	T_{STG}	-55 to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

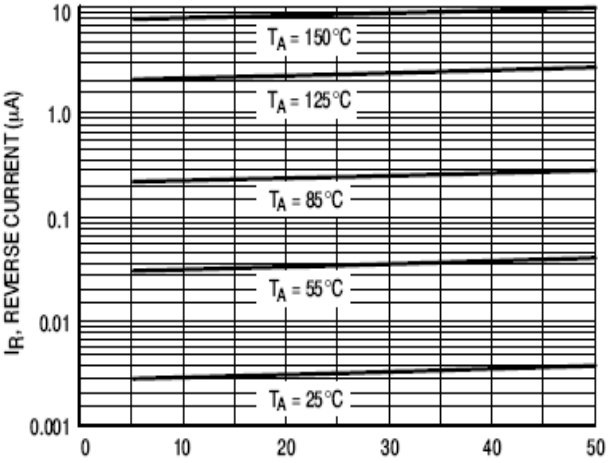
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

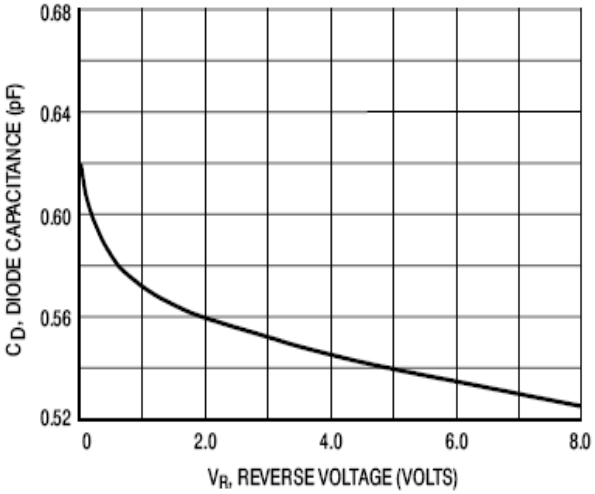
Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75		V	I_R=100μA
Forward Voltage	V_{F1} V_{F2} V_{F3} V_{F4}		715 855 1000 1250	mV	I_F=1mA I_F=10mA I_F=50mA I_F=150mA
Reverse Current	I_R		2.5	μA	V_R=75V
Reverse Recovery Time	t_{rr}		4	nS	I_F=I_R=10mA V_R=5V R_C=100Ω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

High-speed switching diode MMBD914

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified



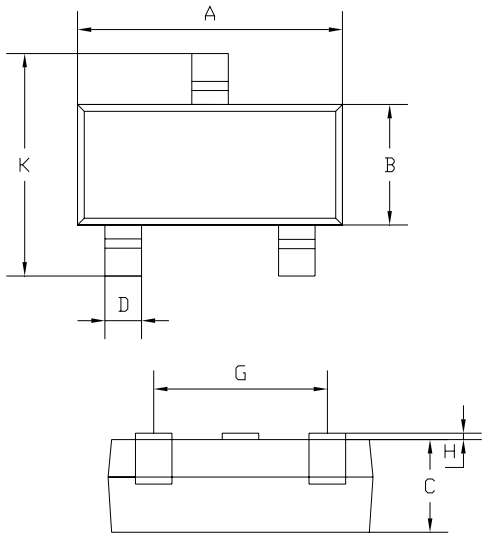




High-speed switching diode MMBD914

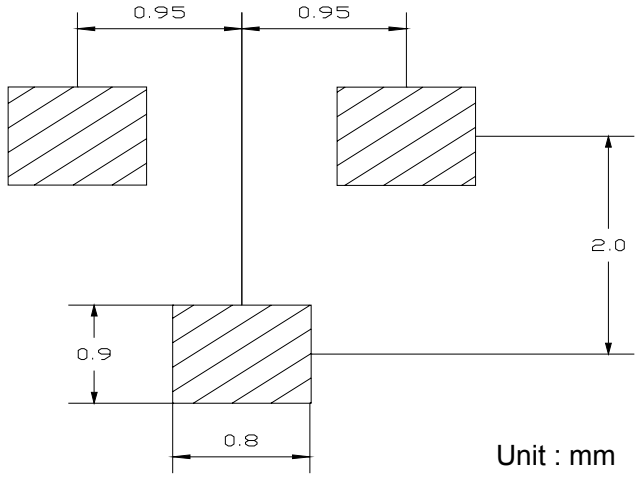
PACKAGE OUTLINE

Plastic surface mounted package SOT-23



SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1.0Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1Typical	
K	2.35	2.45
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

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