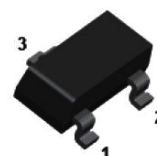




Features:

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



SOT-23

Applications:

High speed switching application

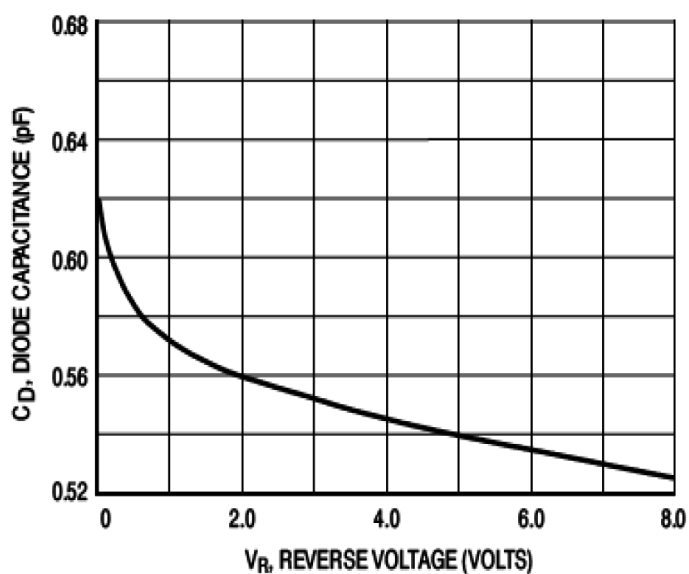
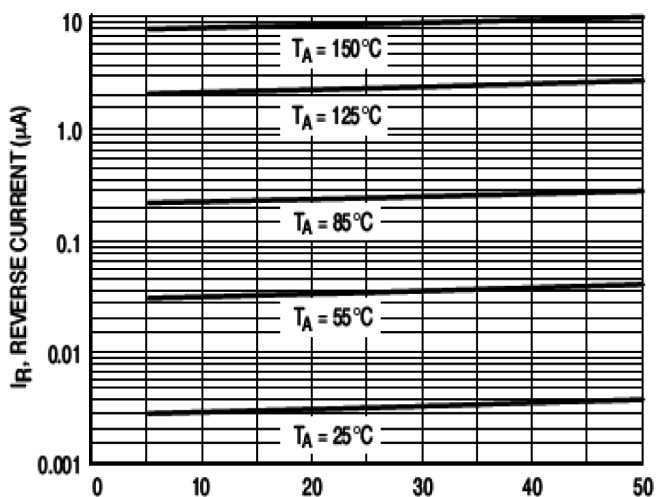
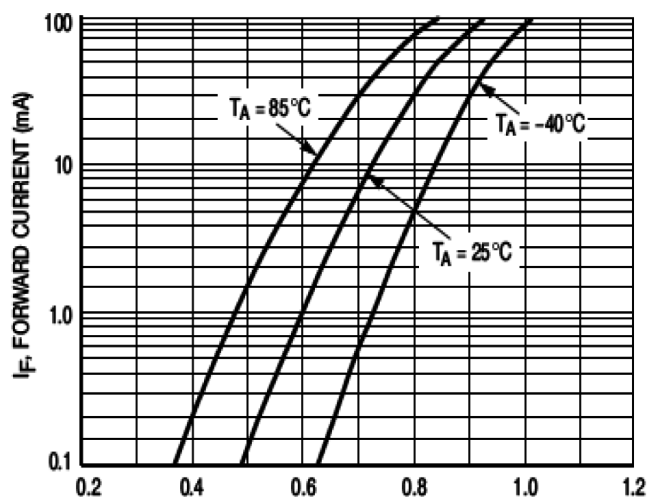
Max. Rating @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC reverse voltage	V _{RRM} V _{RMS} V _R	75	V
Forward continuous current	I _{FM}	200	mA
Power dissipation	P _D	225	mW
Operating junction temperature range	T _j	150	°C
Operating and storage temperature range	T _{STG}	-55 to +150	°C

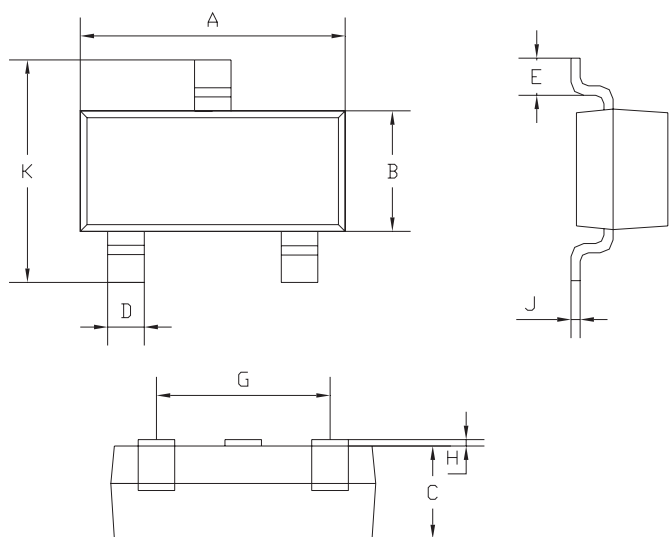
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V _{R(BR)}	I _R = 100μA	75	-	V
Forward voltage	V _{F1} V _{F2} V _{F3} V _{F4}	I _F = 1mA I _F = 10mA I _F = 50mA I _F = 150mA	-	715 855 1,000 1250	mV
Reverse current	I _R	V _R = 75V	-	2.5	μA
Diode capacitance	C _D	V _R = 0V, f = 1MHz	-	20	pF
Reverse recovery time	t _{rr}	I _F = I _R = 10mA V _R = 5V, R _L = 100Ω	-	4	ns

Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

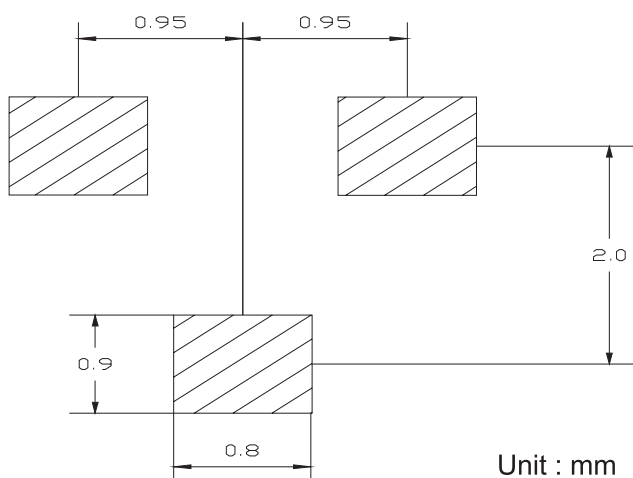


Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45
All Dimensions in mm		

Soldering Footprint



Package Information

Device	Package	Shipping
MMBD914-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
High-Speed Switching Diode	MMBD914-7-F

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