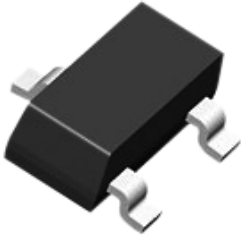
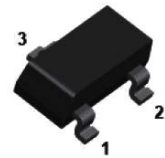


High-Speed Switching Diode



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 @ TA = 25°C unless otherwise specified

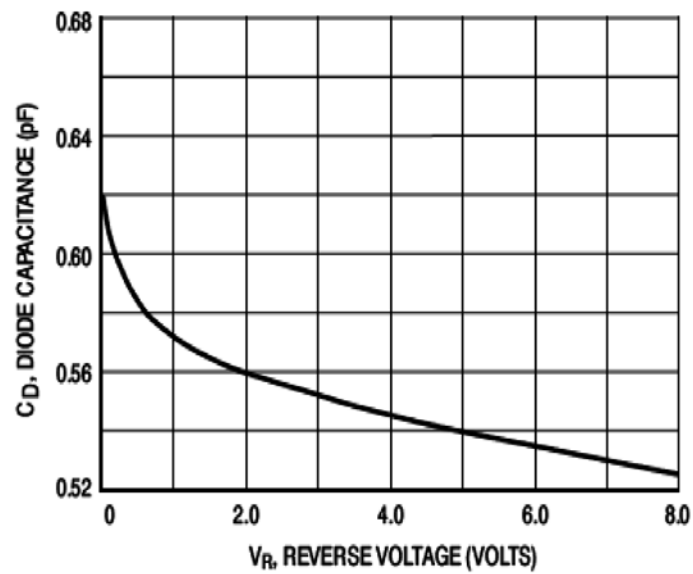
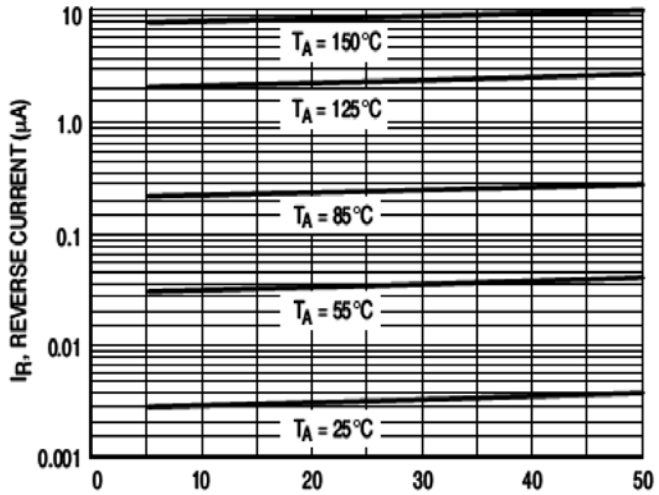
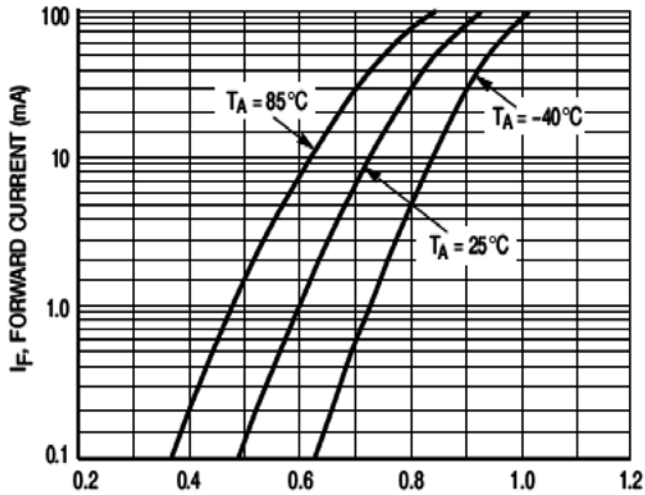
Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RMS} V_R	75	V
Forward continuous current	I_{FM}	200	mA
Power dissipation	P_D	225	mW
Operating junction temperature range	T_j	150	°C
Operating and storage temperature range	T_{STG}	-55 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{R(BR)}$	$I_R = 100\mu A$	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}	$I_F = I_R = 10mA$ $V_R = 5V, R_L = 100\Omega$	-	4	ns

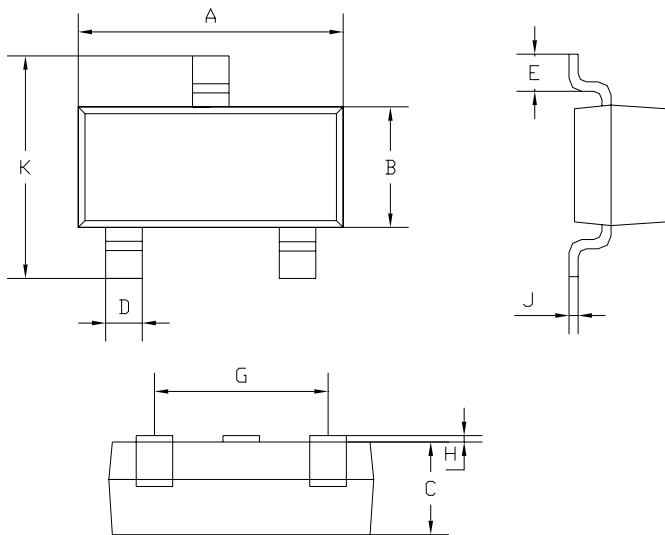
High-Speed Switching Diode

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



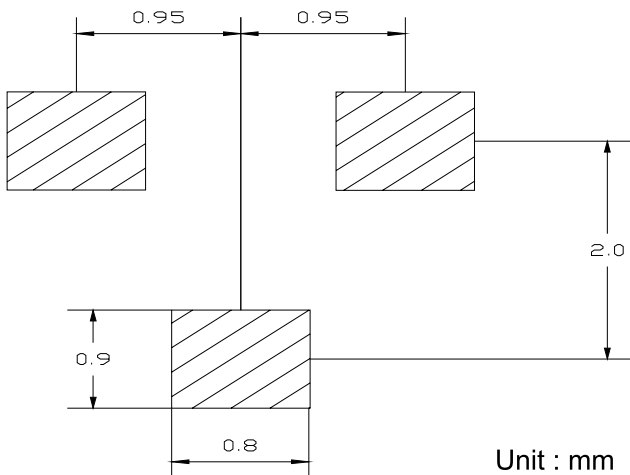
High-Speed Switching Diode

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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