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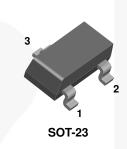
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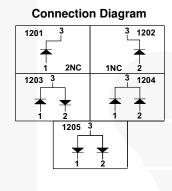
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July 2015



MMBD1201 / MMBD1202 / MMBD1203 / MMBD1204 / MMBD1205 Small Signal Diodes





Ordering Information

Part Number	Top Mark	Package	Packing Method
MMBD1201	24	SOT-23 3L	Tape and Reel
MMBD1202	25	SOT-23 3L	Tape and Reel
MMBD1203	26	SOT-23 3L	Tape and Reel
MMBD1204	27	SOT-23 3L	Tape and Reel
MMBD1205	28	SOT-23 3L	Tape and Reel

Absolute Maximum Ratings(1), (2)

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter		Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage		100	V
I _{F(AV)}	Average Rectified Forward Current		200	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current	Pulse Width = 1.0 second	1.0	A
		Pulse Width = 1.0 microsecond	2.0	
T _{STG}	Storage Temperature Range		-55 to +150	°C
TJ	Operating Junction Temperature		150	°C

Notes:

1. These ratings are based on a maximum junction temperature of 150°C.

2. These are steady-state limits. Fairchild Semiconductor should be consulted on applications involving pulsed or low-duty-cycle operations.

Thermal Characteristics

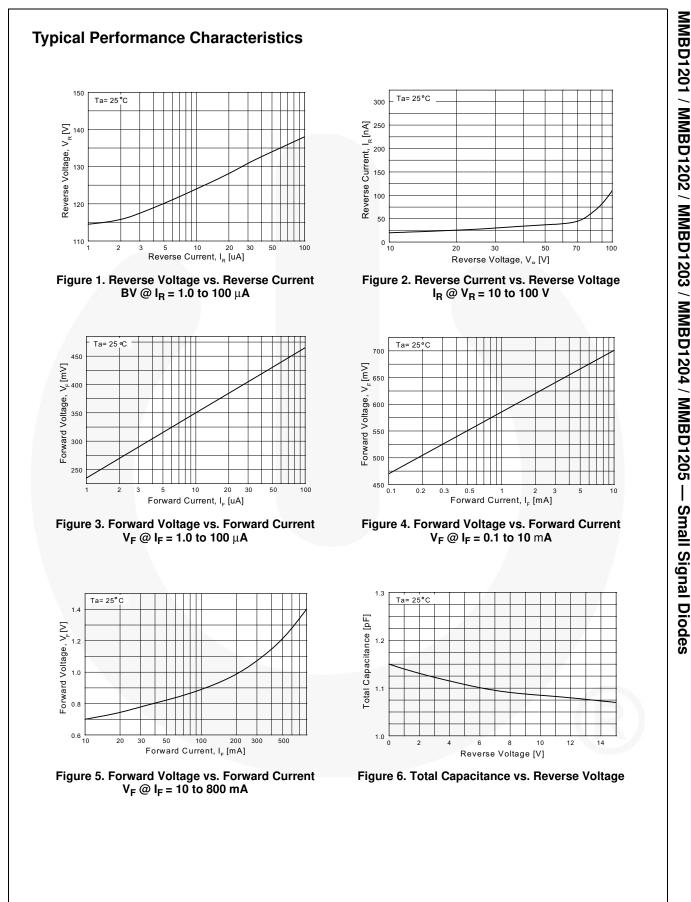
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Value	Unit
Б	Power Dissipation	350	mW
PD	Derate Above 25°C	2.8	mW/°C
R _{θJA}	Thermal Resistance, Junction-to-Ambient	357	°C/W

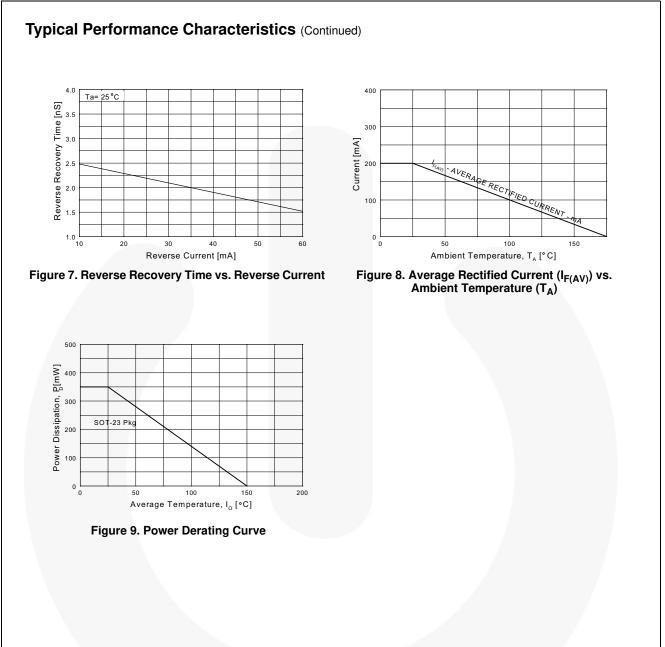
Electrical Characteristics

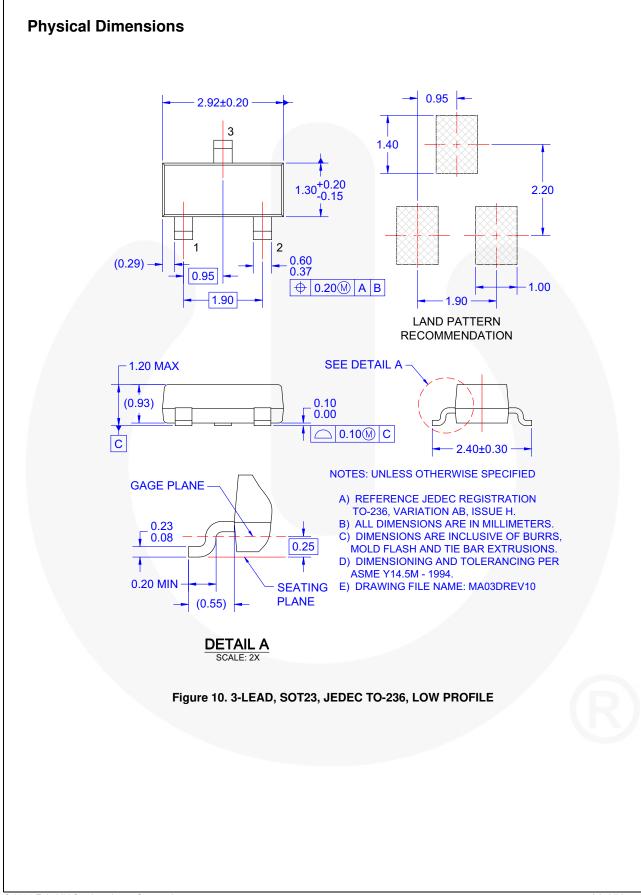
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V _R	Breakdown Voltage	I _R = 100 μA	100		V
V _F	Forward Voltage	I _F = 1.0 mA	550	600	mV
		I _F = 10 mA	660	740	mV
		I _F = 100 mA	820	920	mV
		I _F = 200 mA	0.87	1.0	V
		I _F = 300 mA		1.1	V
I _R	Reverse Current	V _R = 20 V		25	nA
		V _R = 50 V		50	nA
		$V_{R} = 50 \text{ V}, \text{T}_{A} = 150^{\circ}\text{C}$		100	μA
CT	Total Capacitance	V _R = 0, f = 1.0 MHz		2.0	pF
t _{rr}	Reverse Recovery Time	$I_{\text{F}} = I_{\text{R}} = 10 \text{ mA}, I_{\text{RR}} = 1.0 \text{ mA}, \\ R_{\text{L}} = 100 \Omega$		4.0	nS



MMBD1201 / MMBD1202 / MMBD1203 / MMBD1204 / MMBD1205





MMBD1201 / MMBD1202 / MMBD1203 / MMBD1204 / MMBD1205

Small Signal Diodes

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