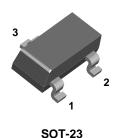
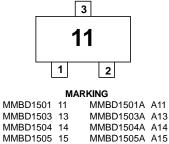
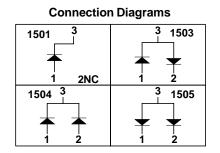


MMBD1501/A / 1503/A / 1504/A / 1505/A







Small Signal Diodes

Absolute Maximum Ratings* $T_{A} = 25^{\circ}C$ unless otherwise noted

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

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

NOTES:

1) These ratings are based on a maximum junction temperature of 150 degrees C.
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations

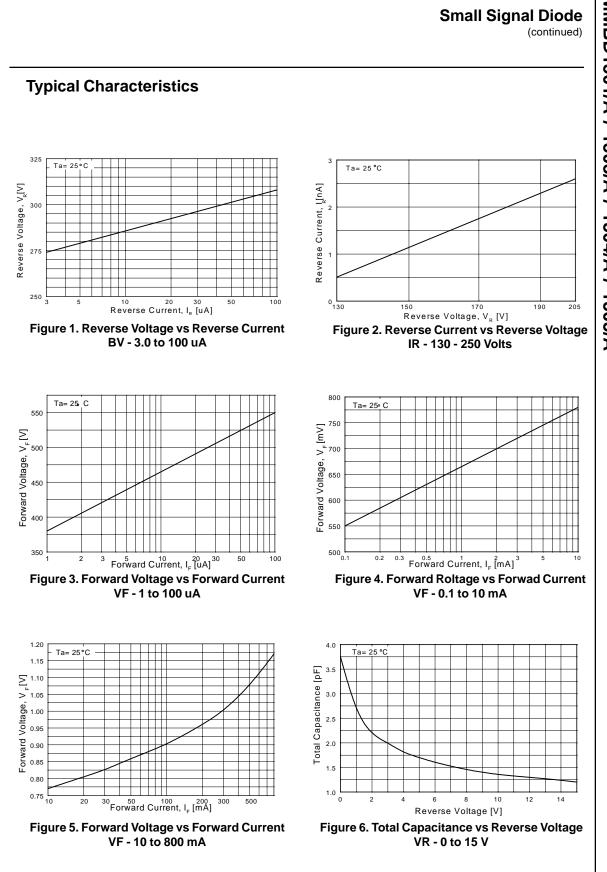
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	350	mW
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient	357	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

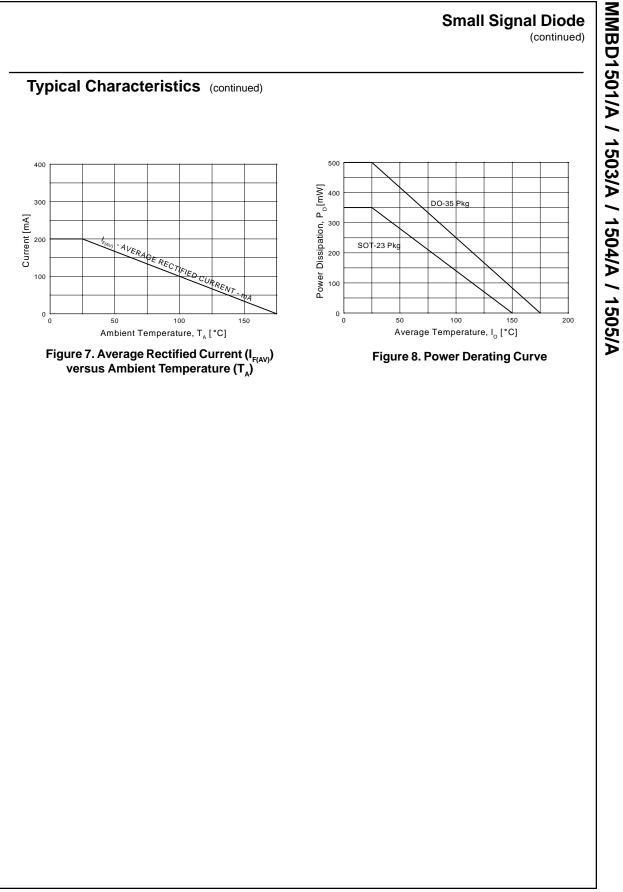
Symbol	Parameter	Test Conditions	Min	Max	Units
V _R	Breakdown Voltage	I _R = 5.0 μA	200		V
V _F	Forward Voltage	$I_{F} = 1.0 \text{ mA}$ $I_{F} = 10 \text{ mA}$ $I_{F} = 50 \text{ mA}$ $I_{F} = 100 \text{ mA}$ $I_{F} = 200 \text{ mA}$ $I_{F} = 300 \text{ mA}$	620 720 800 830 0.87 0.90	720 830 890 930 1.1 1.15	mV mV mV V V
I _R	Reverse Current	$V_{R} = 125 V$ $V_{R} = 125 V, T_{A} = 150^{\circ}C$ $V_{R} = 180 V$ $V_{R} = 180 V, T_{A} = 150^{\circ}C$	0.00	1.0 3.0 10 5.0	nA μA nA μA
C _T	Total Capacitance	$V_{\rm R} = 0, f = 1.0 \text{ MHz}$		4.0	PF

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MMBD1500 series, Rev. B2

MMBD1501/A / 1503/A / 1504/A / 1505/A



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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