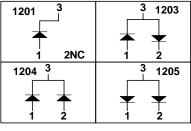




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MARKING MMBD1201 24 MMBD1203 26 MMBD1204 27 MMBD1205 28



# **Small Signal Diodes**

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

Symbol	Parameter	Value	Units	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	100	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA	
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0 2.0	A A	
T <sub>stg</sub>	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.

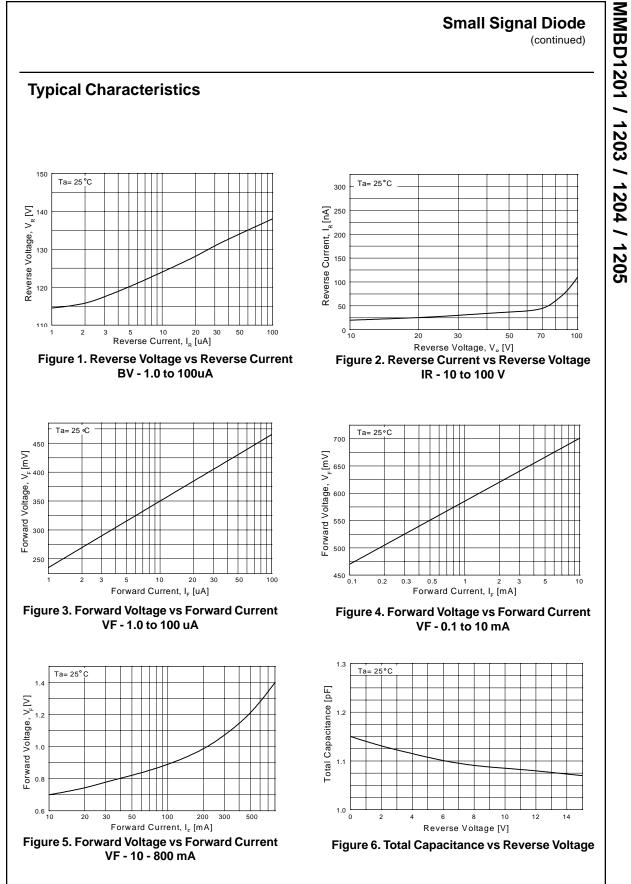
# **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	350	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	357	°C/W

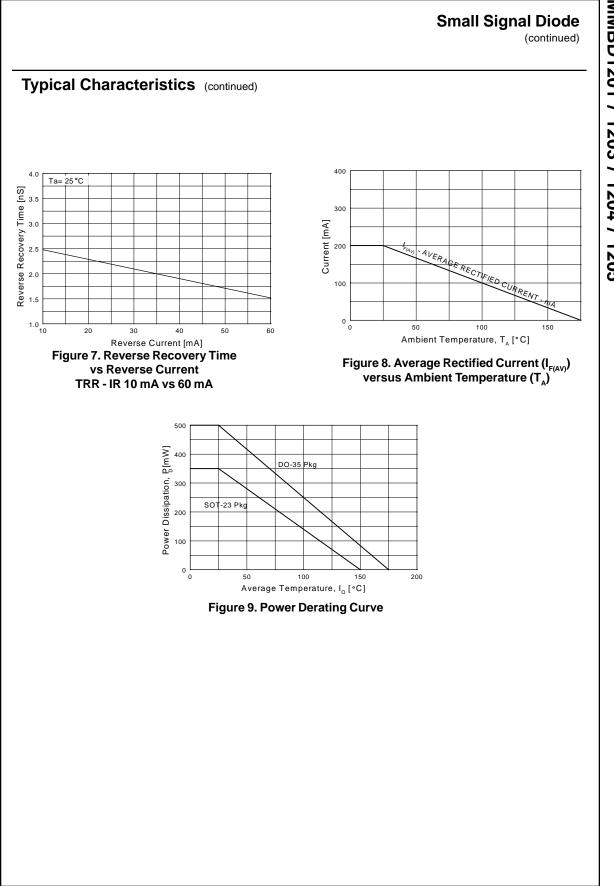
# Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 100 μA	100		V
V <sub>F</sub>	Forward Voltage	$I_F = 1.0 \text{ mA}$ $I_F = 10 \text{ mA}$ $I_F = 100 \text{ mA}$ $I_F = 200 \text{ mA}$ $I_F = 300 \text{ mA}$	550 660 820 0.87 -	600 740 920 1.0 1.1	mV mV mV V V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 20 V V <sub>R</sub> = 50 V V <sub>R</sub> = 50 V, T <sub>A</sub> = 150°C		25 50 5.0	nA nA μA
CT	Total Capacitance	$V_{R} = 0, f = 1.0 \text{ MHz}$		2.0	pF
t <sub>rr</sub>	Reverse Recovery Time	$I_F = I_R = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA}, R_L = 100 \Omega$		4.0	ns

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MMBD1200 series, Rev. C



MMBD1201 / 1203 / 1204 / 1205

MMBD1200 series, Rev. C

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