

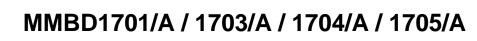
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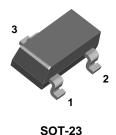


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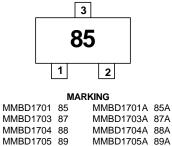
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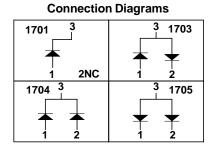
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Small Signal Diodes

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

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V
I _{F(AV)}	Average Rectified Forward Current	50	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second	250	mA
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

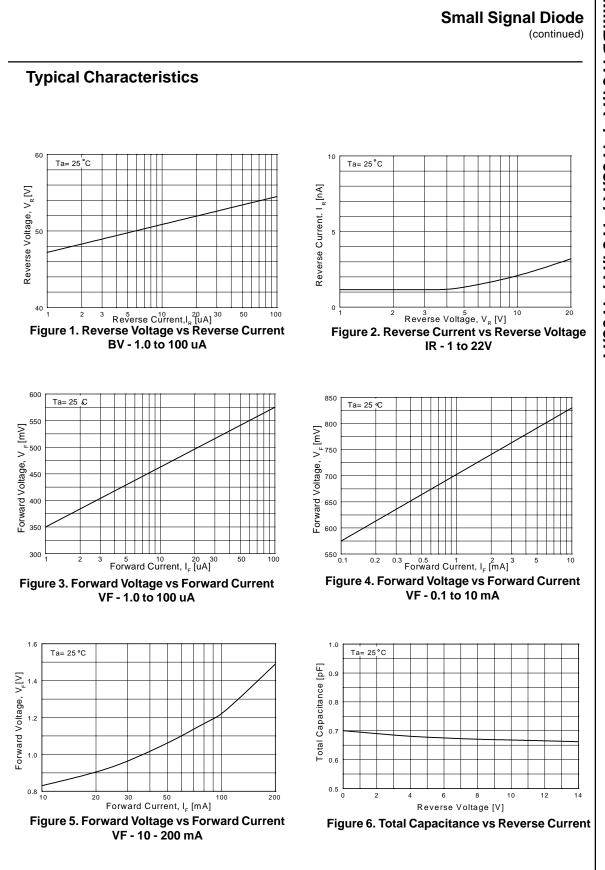
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	350	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	357	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

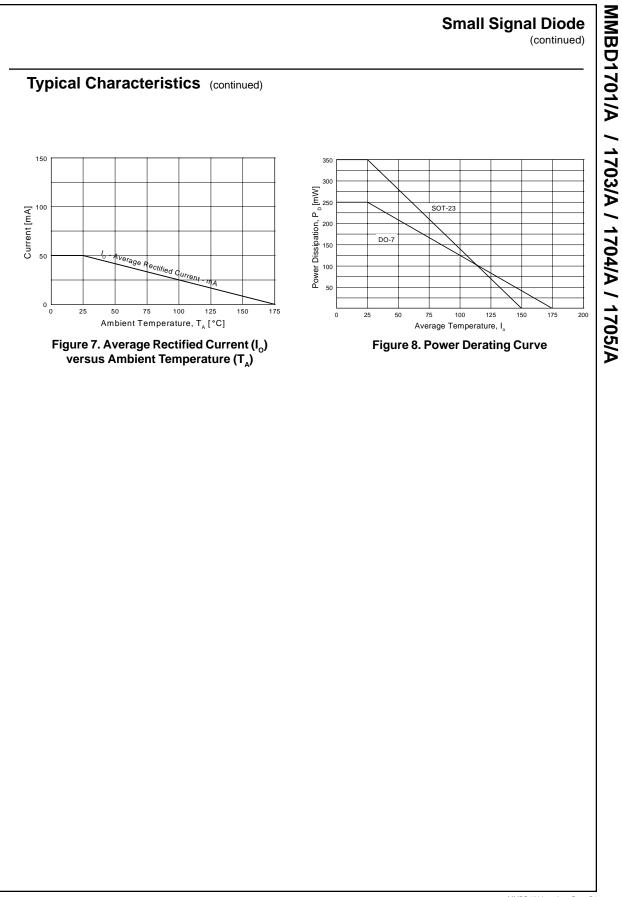
Symbol	Parameter	Test Conditions	Min	Max	Units
V _R	Breakdown Voltage	I _R = 5.0 μA	30		V
V _F	Forward Voltage	$ \begin{split} I_{F} &= 10 \ \mu A \\ I_{F} &= 100 \ \mu A \\ I_{F} &= 1.0 \ m A \\ I_{F} &= 10 \ m A \\ I_{F} &= 20 \ m A \\ I_{F} &= 50 \ m A \end{split} $	420 520 640 760 810 0.89	500 610 740 880 950 1.1	mV mV mV mV V
I _R	Reverse Current	V _R = 20 V		50	nA
CT	Total Capacitance	V _R = 0, f = 1.0 MHz		1.0	pF
t _{rr}	Reverse Recovery Time MMBD1701-1705 MMBD1701A-1705A	$I_F = I_R = 10$ mA, $I_{RR} = 1.0$ mA, $R_L = 100$ Ω $I_F = I_R = 10$ mA, $I_{RR} = 1.0$ mA, $R_L = 100$ Ω		0.7 1.0	ns ns

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MMBD1701/A / 1703/A / 1704/A / 1705/A

MMBD1700 series, Rev. B1



MMBD1700 series, Rev. B1

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