

Small signal Diode

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

Symbol	Parameter	Value	Units
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 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 _{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 = 100 μA	100		V
V _F	Forward Voltage	I _F = 1.0 mA I _F = 10 mA I _F = 100 mA	550 670 0.75	700 820 1.1	mV mV V
I _R	Reverse Current	V _R = 100 V V _R = 50 V V _R = 50 V, T _A = 125°C		500 300 100	nA nA μA
C _T	Total Capacitance	$V_{R} = 0, f = 1.0 \text{ MHz}$		1.5	pF
t _{rr}	Reverse Recovery Time	$I_F = I_R = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA}, R_I = 100 \Omega$		4.0	ns

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MMBD7000

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