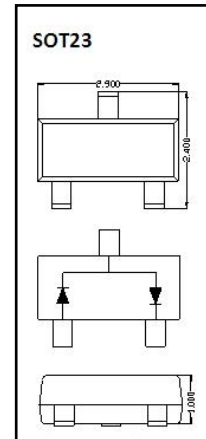


DATA SHEET

MMBD7000

- ◇ Fast Switching Speed
- ◇ For General Purpose Switching Applications
- ◇ High Conductance
- ◇ Low Current Leakage
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC

Device Marking Code	
MMBD7000	M5C



MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _R	Reverse Voltage	100	V
V _R (RMS)	RMS Reverse Voltage	53	V
I _o	Average Rectified Output Current	200	mA
R _θ JA	Thermal Resistance Junction to Ambient	556	°C/W
I _{FSM}	Peak Forward Surge Current t=1s, Non-Repetitive	0.5	A
P _D	Power Dissipation	225	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

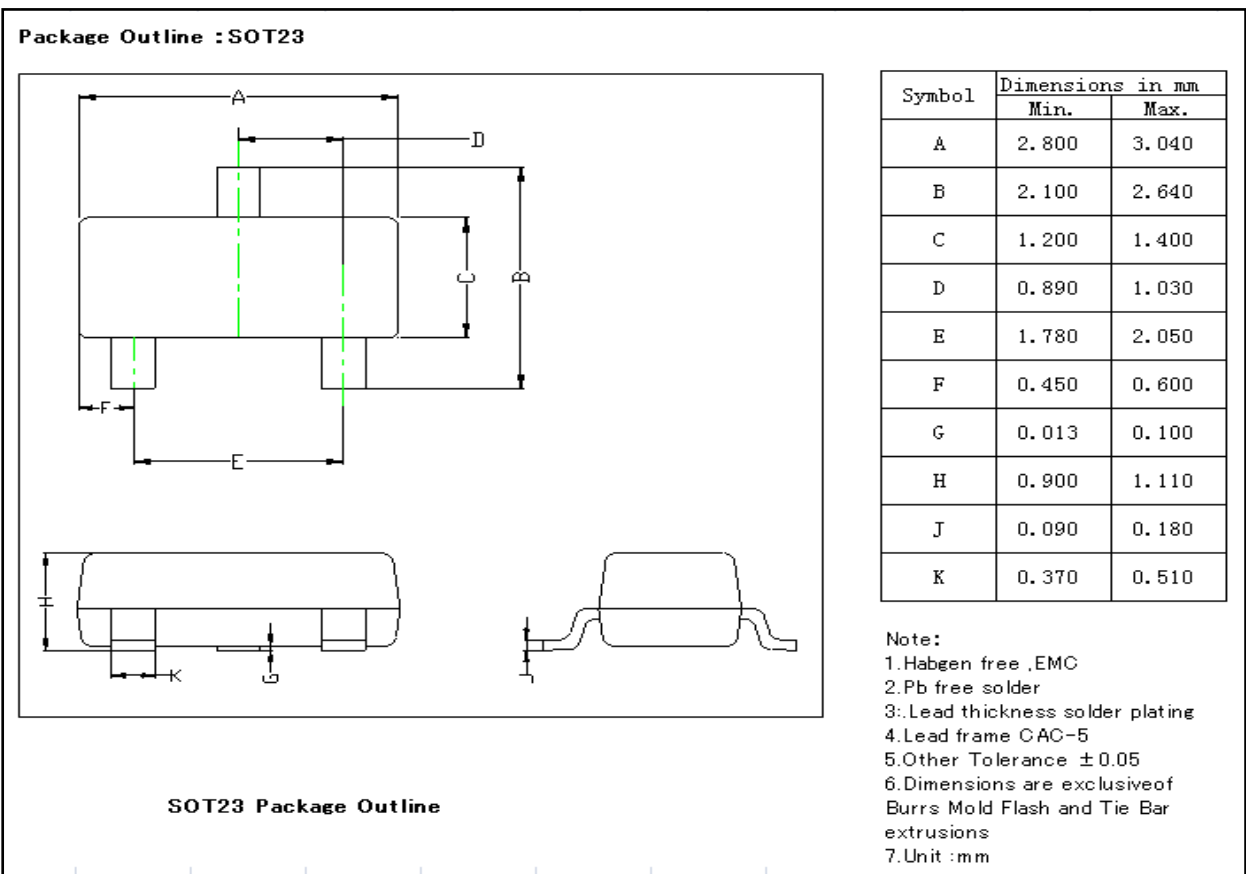
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
V _F	Forward Voltage	I _F =10mA		0.855	V
		I _F =100mA		1.1	V
V _R	Reverse breakdown voltage	I _R =100uA	100		V
I _R	Reverse voltage leakage current	V _R =50V T _j =25°C		1.0	uA
		V _R =50V T _j =125°C		100	
		V _R =100V		3.0	
C _T	Capacitance between terminals	V _R =0V, f=1MHz		2	pF
T _{rr}	Reverse recovery time	I _F =I _R =10mA I _{rr} =0.1×I _R , R _L =100Ω		4	nS

ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
MMBD7000	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS



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