

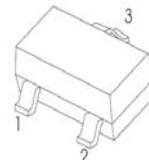
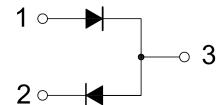


迈拓电子
MAITUO ELECTRONIC

MMBD7000 SWITCHING DIODE

FEATURES

- Dual Switching Diode
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications



MARKING: M5C

SOT-23

Maximum Ratings@Ta=25

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Average Rectified Output Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current @ t =8.3 ms	I _{FSM}	2	A
Power Dissipation	P _D	225	mW
Thermal Resistance,Junction to Ambient	R _{θJA}	556	°C/W
Junction temperature	T _j	150	°C
Storage temperature range	T _{STG}	-55~+150	°C

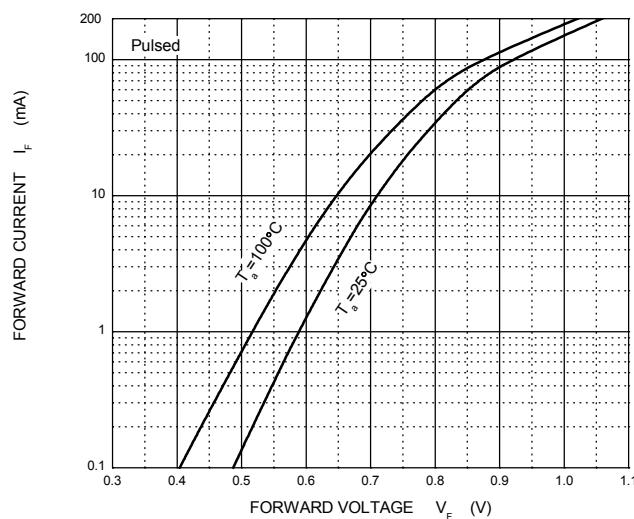
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =100μA	100		V
Reverse voltage leakage current	I _R	V _R =50V V _R =100V		1.0 3.0	μA
Forward voltage	V _F	I _F =1mA I _F =10mA I _F =100mA	0.55 0.67 0.75	0.7 0.82 1.1	V
Diode capacitance	C _T	V _R =0V,f=1.0MHz		2	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1 x I _R ,RL=100Ω		4	ns

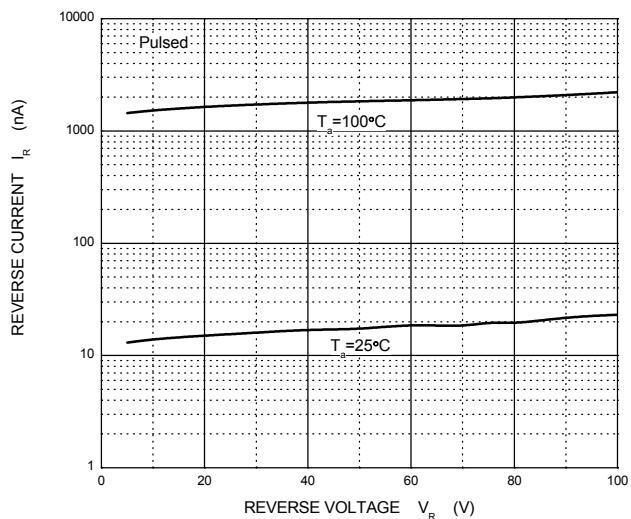


迈拓电子
MAITUO ELECTRONIC

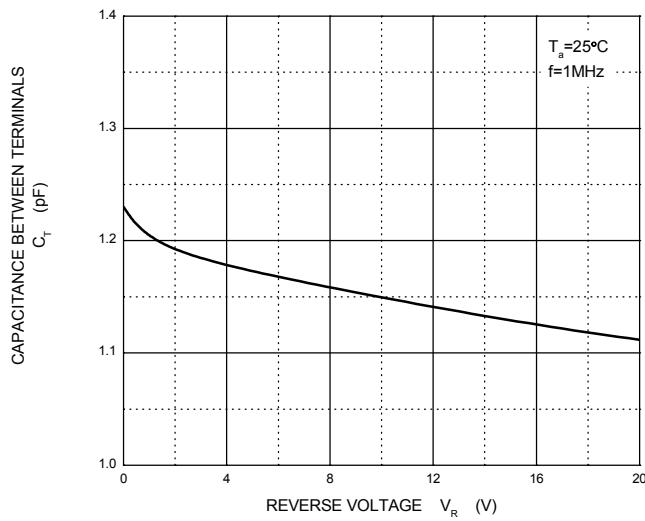
Forward Characteristics



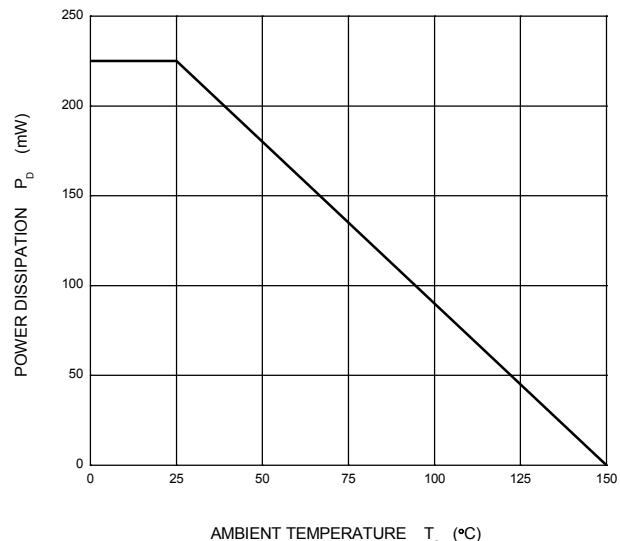
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





迈拓电子
MAITUO ELECTRONIC

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23

