

Surface mount switching diode

MMBD7000

FEATURES

- For high-speed switching application.
- Connected in series.

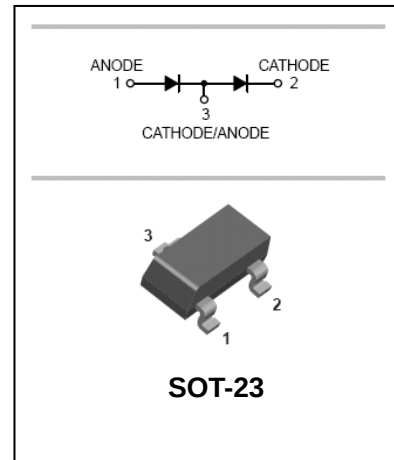


APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMBD7000	M5C	SOT-23



MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
DC Reverse Voltage	V_R	100	V
Forward Current	I_F	200	mA
Suge forward Current, $t=1\mu s$	I_{FS}	4.5	A
Power Dissipation	P_d	330	mW
Operating Junction Temperature Range	T_j	150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

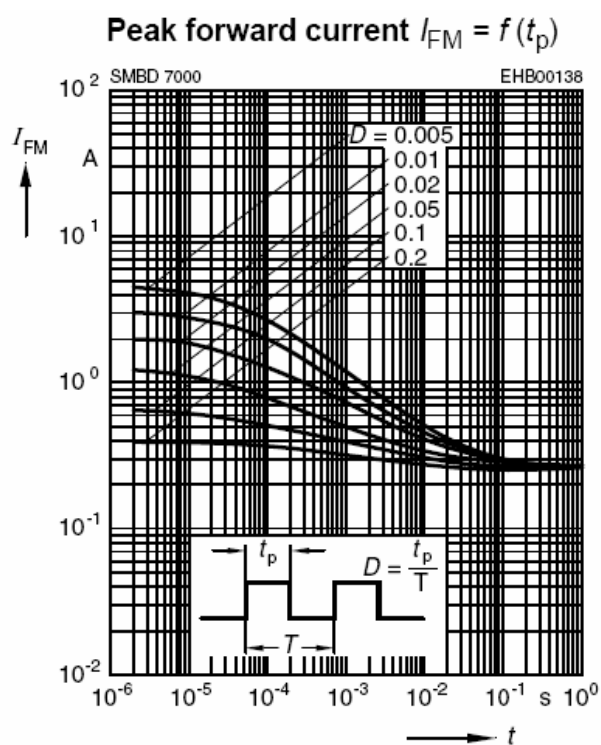
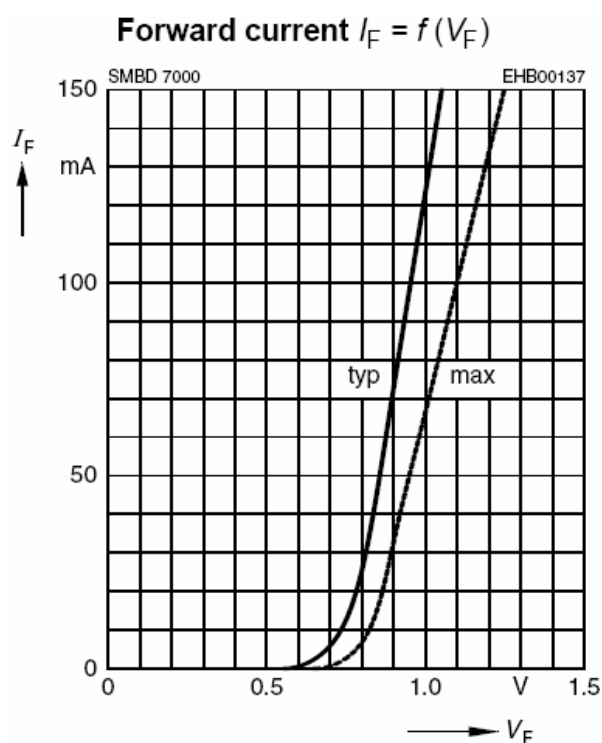
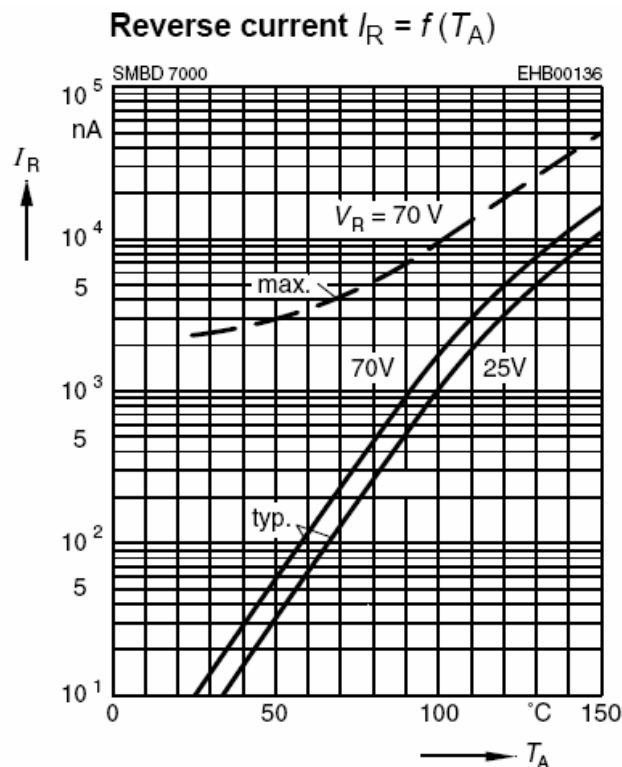
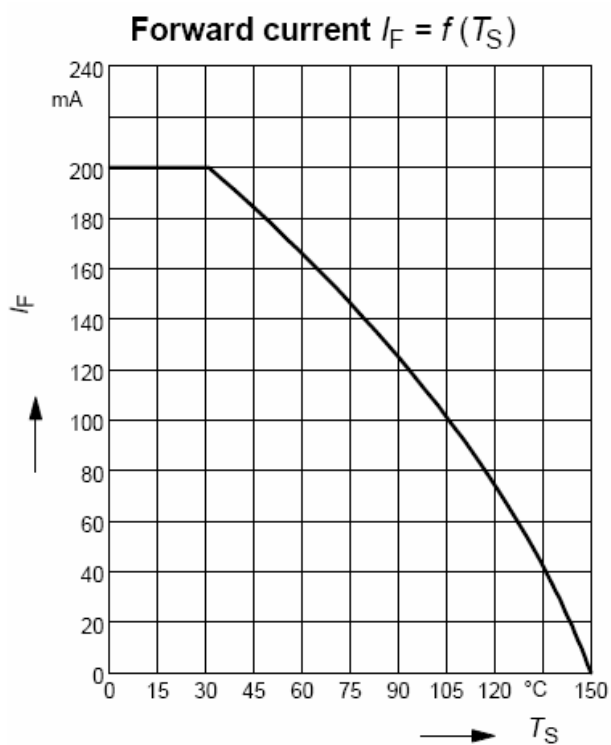
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	100		V	$I_R = 100\mu A$
Forward Voltage	V_F	0.55 0.67 0.75	0.7 0.82 1.1	V	$I_F = 1mA$ $I_F = 10mA$ $I_F = 100mA$
Reverse Leakage Current	I_R		300 500	nA	$V_R = 50V$ $V_R = 100V$
Diode Capacitance	C_D		2	pF	$V_R = 0V, f = 1MHz$
Reverse Recovery Time	t_{rr}		15	ns	$I_F = I_R = 10mA$ $R_L = 100\Omega$

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



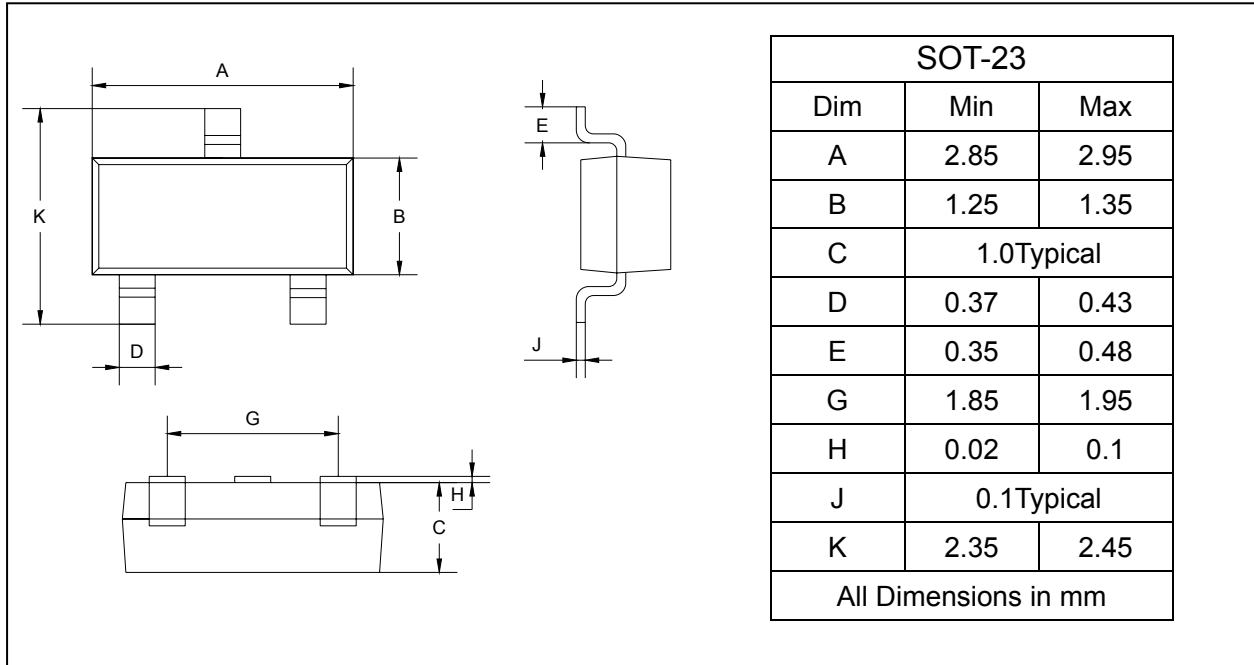
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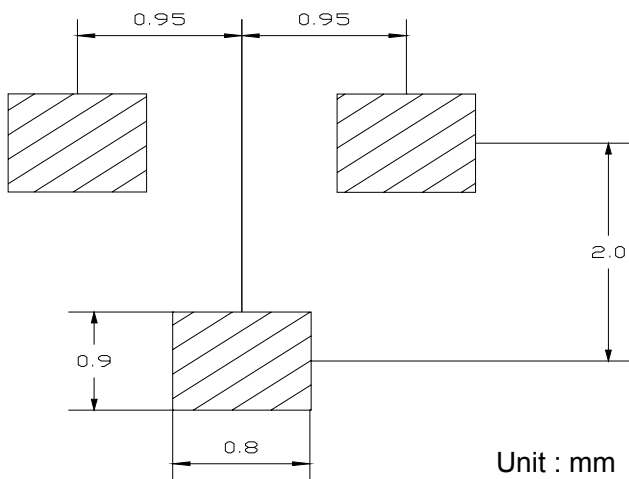
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
MMBD7000	SOT-23	3000/Tape&Reel