EVVOSEMI®
THINK CHANGE DO

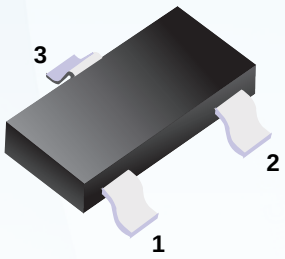
ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

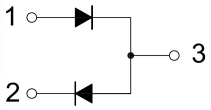
Domestic Part Number	MMBD7000L
Overseas Part Number	MMBD7000L
Equivalent Part Number	MMBD7000L

MMBD7000

Switching Diodes



■ Simplified outline(SOT-23)



■ Features

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

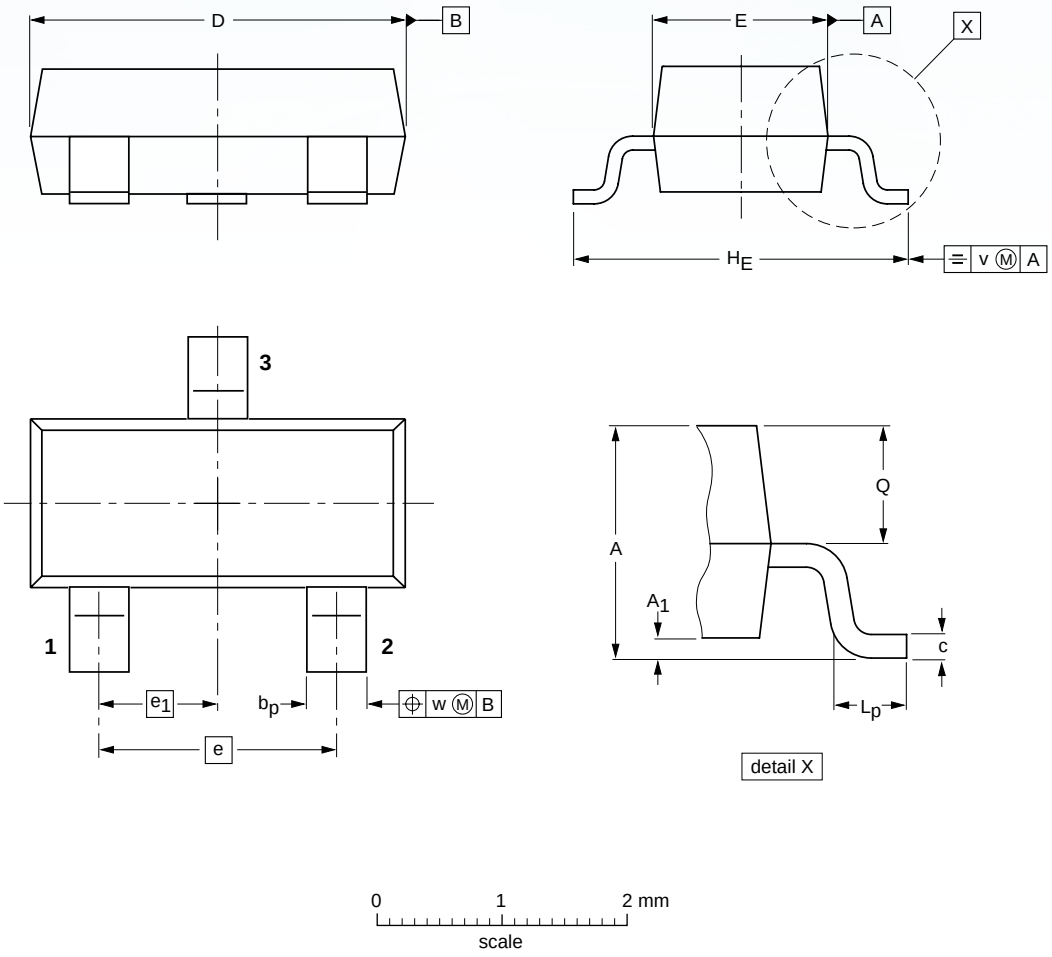
■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	
Working Peak Reverse Voltage	V_{RWM}		
RMS Reverse Voltage	V_{RMS}	53	
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1us	I_{FSM}	2	A
@ t = 1s		1	
Power Dissipation	P_d	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	I_R= 100 uA	100			V
Forward voltage	V_F	I_F= 1 mA			0.7	
		I_F= 10 mA			0.82	
		I_F= 100 mA			1.1	
Reverse voltage leakage current	I_R	V_R= 50 V			1	uA
		V_R= 100 V			3	
Diode capacitance	C_T	V_R= 0 V, f= 1 MHz			2	pF
Reverse recovery time	t_{rr}	I_F=I_R=10mA,Irr=0.1xI_R, R_L=100Ω			4	ns

■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1 max.	b_p	c	D	E	e	e_1	H_E	L_p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

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