

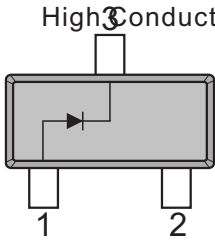


SOT-23

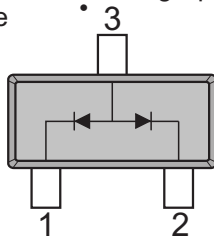
### Switching Diodes

#### FEATURES

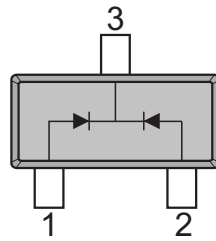
- Fast Switching Speed
- For General Purpose Switching Application
- High Conductance



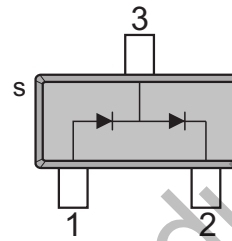
MMBD4148A



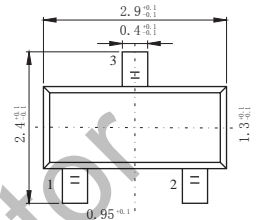
MMBD4148CA



MMBD4148CC



MMBD4148SE



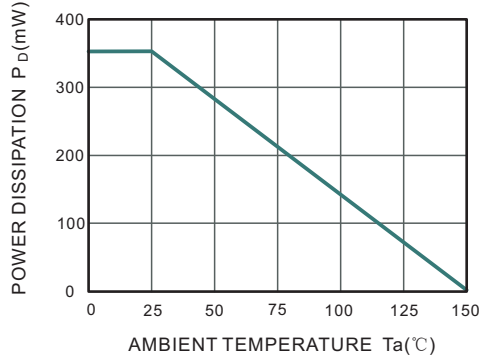
#### Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_o$	200	mA
Peak Forward Surge Current @t=1.0µs	$I_{FSM}$	2.0	A
@t=1.0s		1.0	
Power Dissipation	$P_D$	350	mW
Thermal Resistance Junction to Ambient	$R_{thJA}$	357	°C/W
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-55 ~ +150	°C

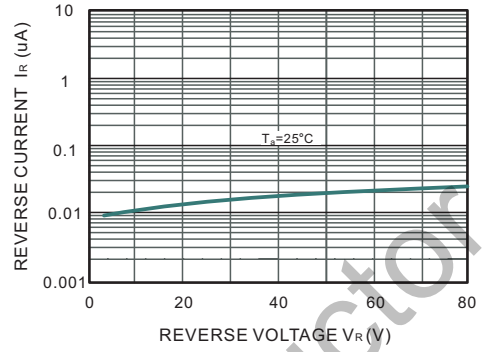
#### Electrical Characteristics @Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)1}$	$I_R=100\mu A$	100			V
	$V_{(BR)2}$	$I_R=5\mu A$	75			V
Forward voltage	$V_F$	$I_F=10mA$			1.0	V
Reverse current	$I_{R1}$	$V_R=75V$			5.0	µA
	$I_{R2}$	$V_R=25V$			25	nA
Capacitance between terminals	$C_T$	$V_R=0V, f=1MHz$			4.0	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA, V_R=6V$ $I_{rr}=0.1I_{R1}, R_L=100\Omega$			4.0	ns

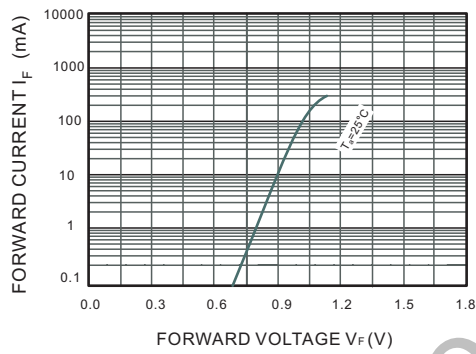
**Fig.1 Power Derating Curve**



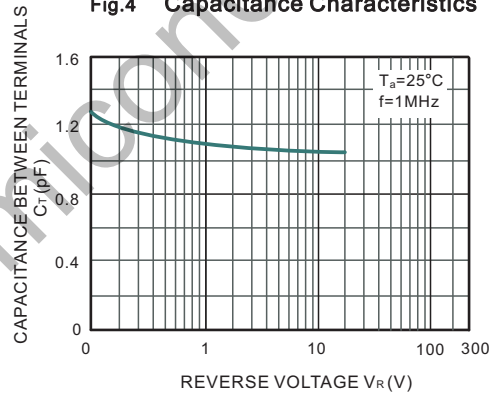
**Fig.2 Reverse Characteristics**



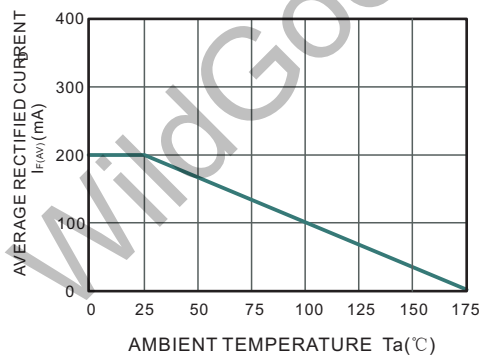
**Fig.3 Forward Characteristics**



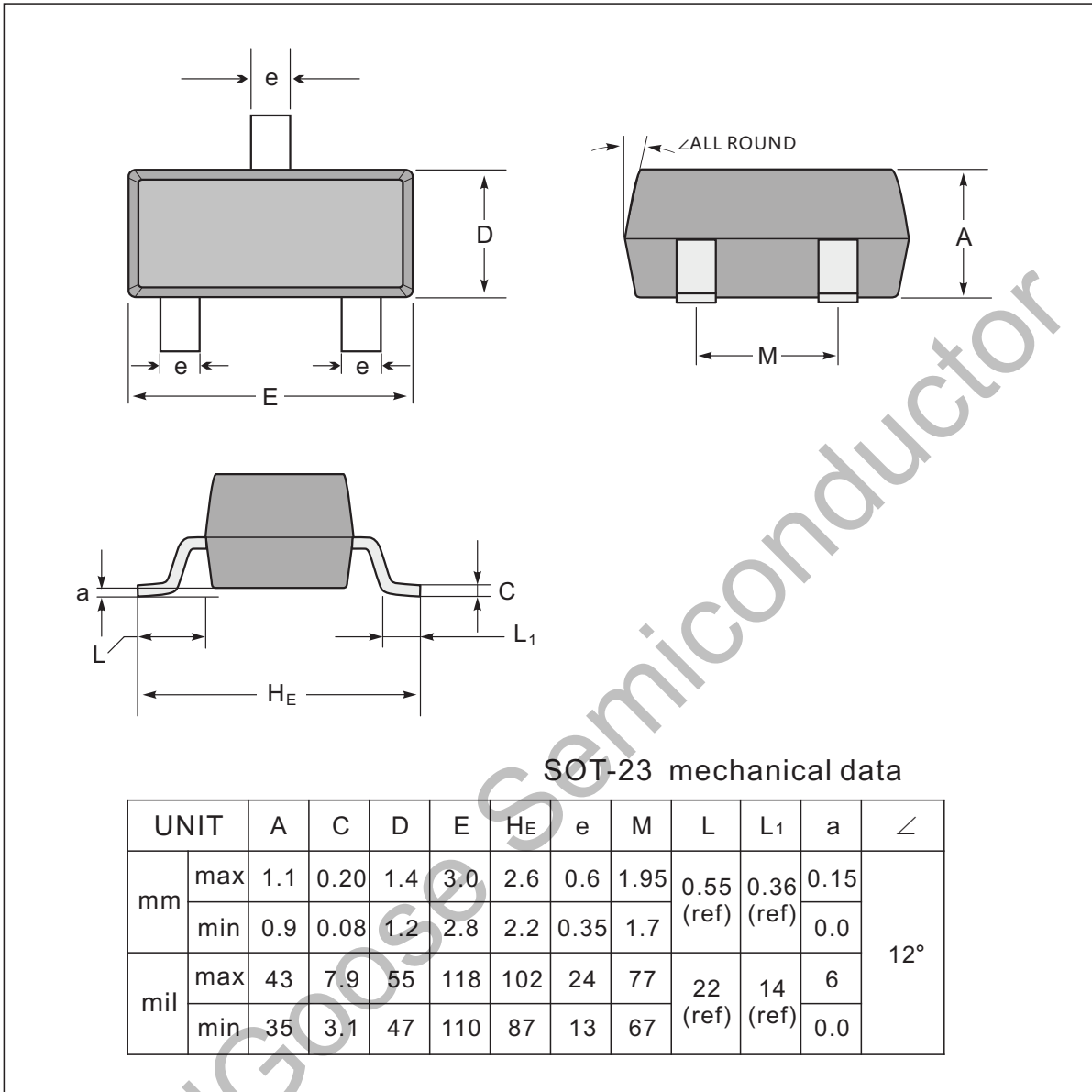
**Fig.4 Capacitance Characteristics**



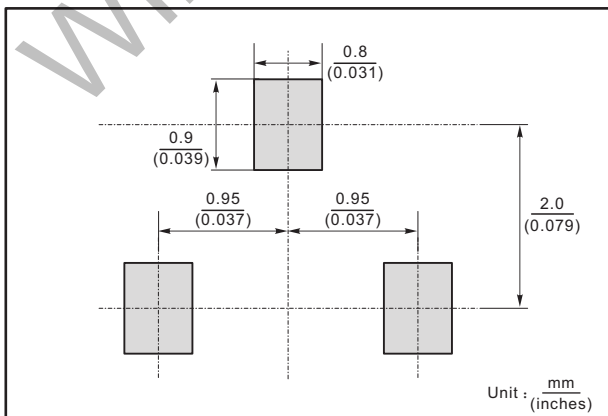
**Fig.5 Semiconductor Intrinsic Property**



**SOT-23 Package Outline Dimensions**



**The recommended mounting pad size**



**Marking**

Type number	Marking code
MMBD4148A	5H
MMBD4148CA	D6
MMBD4148CC	D5
MMBD4148SE	D4

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