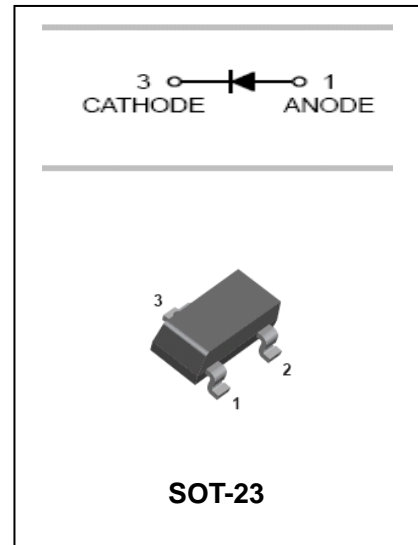


## Surface mount switching diode

## MMBD4148

### FEATURES

- Fast switching speed.
- High conductance.
- For general purpose switching applications.
- Surface mount package ideally suited for automatic insertion.



### APPLICATIONS

- Small signal switching

### ORDERING INFORMATION

Type No.	Marking	Package Code
MMBD4148	KA2	SOT-23

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Reverse Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	75	V
Non-repetitive peak reverse voltage	$V_{RM}$	100	V
RMS Reverse voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	$I_{FM}$	300	mA
Power Dissipation	$P_d$	350	mW
Storage temperature	$T_{STG}$	-65-150	°C

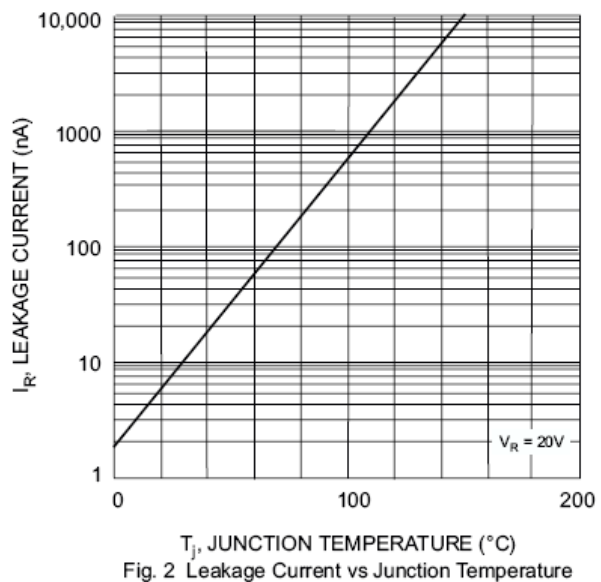
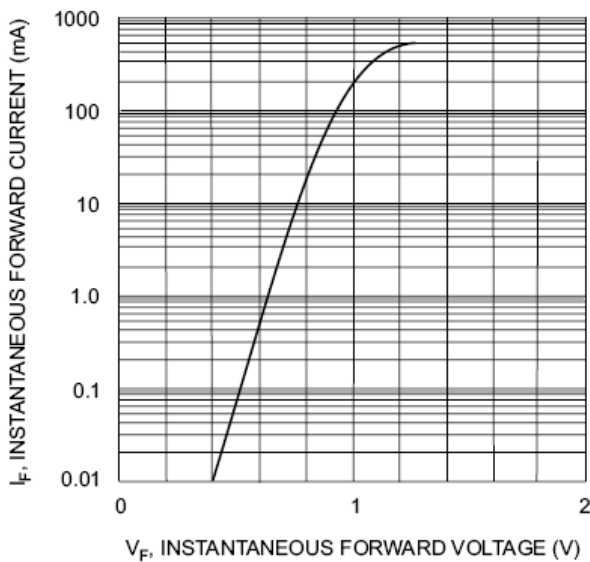
## Surface mount switching diode

## MMBD4148

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{R(BR)}$	75				$I_R=100\mu A$
Maximum Forward voltage	$V_{FM}$			0.715 0.855 1.0 1.25	V	$I_F=1.0mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$
Reverse current	$I_{R1}$			2.5	$\mu A$	$V_R=75V$
	$I_{R2}$			25	nA	$V_R=20V$
Diode Capacitance	$C_D$			2	pF	$V_R=0V, f=1MHz$
Reverse Recovery Time	$t_{rr}$			4	ns	$I_F=I_R=10mA, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$

### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



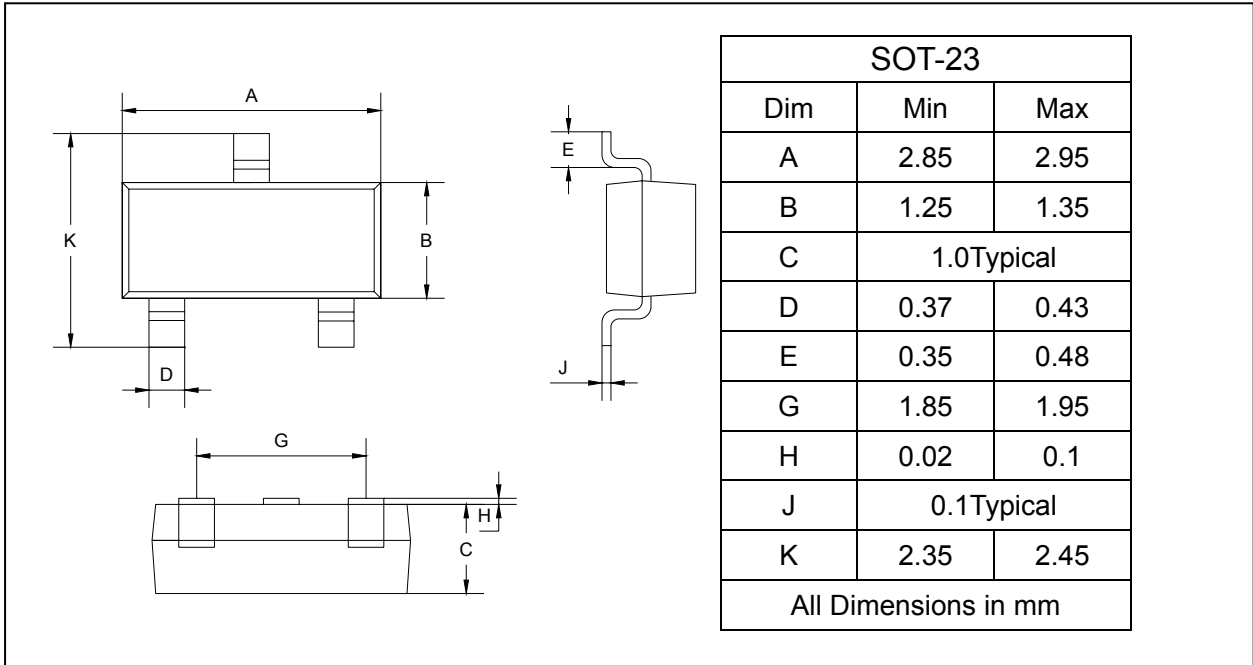
## Surface mount switching diode

## MMBD4148

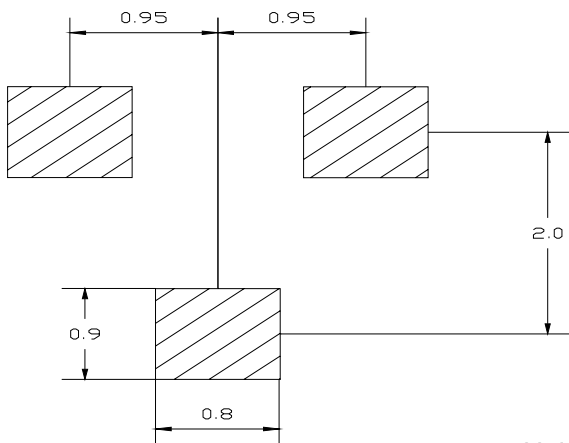
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



Unit : mm

### PACKAGE INFORMATION

Device	Package	Shipping
MMBD4148	SOT-23	3000/Tape&Reel