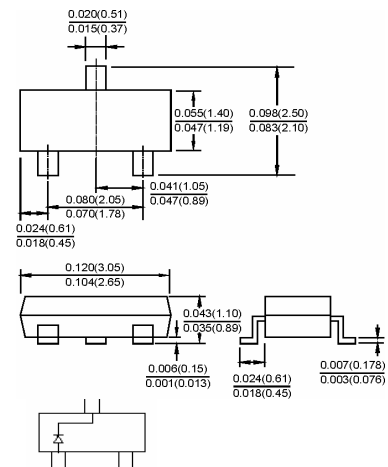

SOT-23


Dimensions in inches and (millimeters)

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

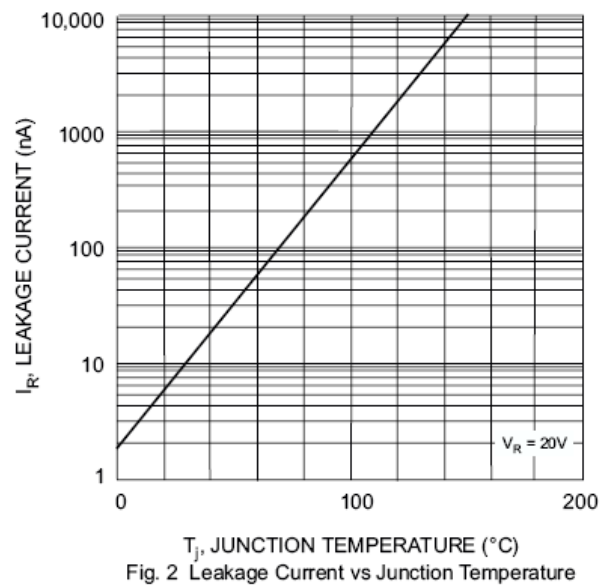
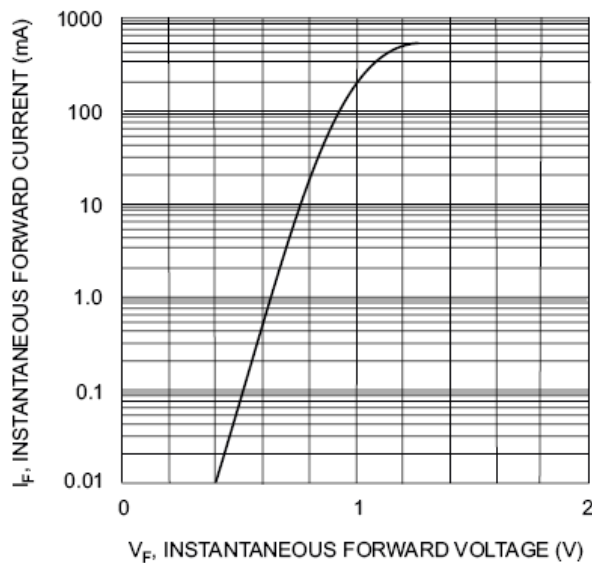
Type No.	Marking	Package Code
MMBD4148	KA2	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Non-repetitive peak reverse voltage	V_{RM}	100	V
RMS Reverse voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	300	mA
Average rectified output Current	I_o	150	mA
Non-repetitive peak forward surge Current @t=1.0μs @t=1.0s	I_{FSM}	2.0 1.0	A
Power Dissipation	P_d	350	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	375	°C/W
Operating and storage temperature range	T_j, T_{STG}	-65 to 150	°C

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	μA	$V_R=75V$
	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	$I_F=I_R=10mA, I_{rr}=0.1 * I_R, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOT-23	3000/REEL	90000	40X20X22	5.00	4.00

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[SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914BTR](#) [RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-](#)
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