



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MMBD4148SE

Features

- Surface Mount Package Ideally Suited for Automatic Insertion
- 150°C Junction Temperature
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: D4
- Weight: 0.008 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Working Inverse Voltage	V_{IV}	75	V
DC Forward Current	I_{FM}	600	mA
Average Rectified Current	$I_{F(AV)}$	200	mA
Recurrent Peak Forward Current	I_{FRM}	700	mA
Peak Forward Surge Current @ $t=1.0s$ @ $t=1.0\mu s$	I_{FSM}	1.0 2.0	A
Power Dissipation	P_d	350	mW
Thermal Resistance	R	357	°C/W
Operation & Storage Temp. Range	T_j, T_{STG}	-55 to +150	°C

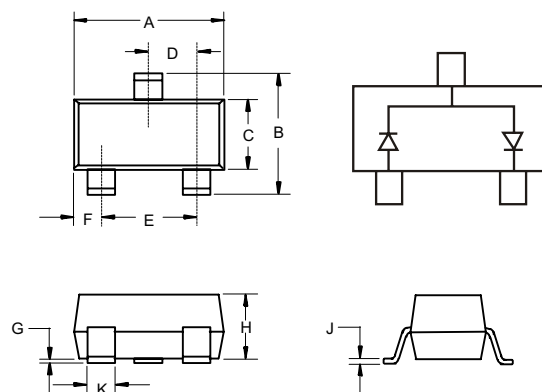
Note: 1) These ratings are based on a max. junction temperature of 50 degrees C
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operation

Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Min	Max	Unit	Test Cond.
Breakdown Voltage	V_R	75		V	$I_R=5\mu A$
Maximum Instantaneous Forward Voltage	V_F		1.0	V	$I_F=10mA$
Maximum Instantaneous Reverse Current	I_R		25 50 5.0	nA uA uA	$V_R=20V$ $V_R=20V T_A=150^\circ C$ $V_R=75V$
Junction Capacitance	C_j		4	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}		4	ns	$I_F=10mA, V_R=6.0V,$ $I_{RR}=1.0mA,$ $R_L=100 OHM$

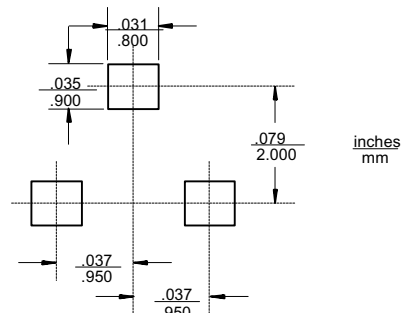
High Conductance Ultra Fast Diode 350mW

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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