

Micro Commercial Components



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MMBD4148CA

Features • Surface Mount Package Ideally Suited for Automatic Insertion

- 150°C Junction Temperature
- High Conductance
- 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: D6
- Weight: 0.008 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

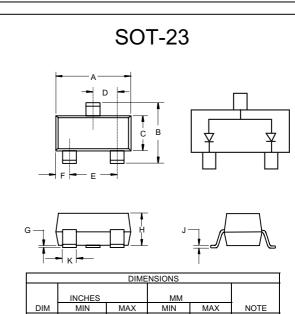
Characteristic	Symbol	Value	Unit
Working Inverse Voltage	Vıv	75	V
DC Forward Current	I_{FM}	600	mA
Average Rectified Current	$I_{F(AV)}$	200	mA
Recurrent Peak Forward Current	I _{FRM}	700	mA
Peak Forward Surge Current@ t=1.0s @ t=1.0us	lгsм	1.0 2.0	А
Power Dissipation	P_d	350	mW
Thermal Resistance	R	357	°C/W
Operation & Storage Temp. Range	Tj, T _{STG}	-55 to +150	°C

Note: 1) Treseratings are based on a max jurition temperature of 50 degrees C
2) Trese are steady state limits. The factory should be consulted on applications involving pulsed or low obly cycle operation.

Electrical Characteristics @ 25°C Unless Otherwise Specified

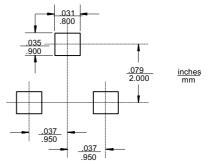
Charateristic	Symbol	Min	Max	Unit	Test Cond.	
Breakdown Voltage	V_R	75		V	I _R =100uA	
Maximum Instantaneous Forward Voltage	V_{F}		1.0	٧	I _F =10mA	
Maximum			25	nA	V _R =20V	
Instantaneous Reverse	I _R		50	uA	V _R =20V T _A =150°C	
Current			5.0	uA	$V_R=75V$	
Junction Capacitance	C _j		4	pF	V _R =0V, f=1.0MHz	
Daylaraa Dagaylarii					I _F =10mA, V _R =6.0V,	
Reverse Recovery Time	t _{rr}		4	ns	I _{RR} =1.0mA,	
Tille					R _L =100 OHM	

High Conductance Ultra Fast Diode 350mW



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

Suggested Solder Pad Layout





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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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