

Features

- Surface Mount Package Ideally Suited for Automatic Insertion
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

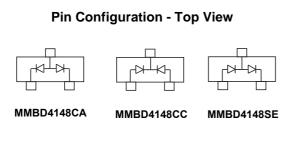
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

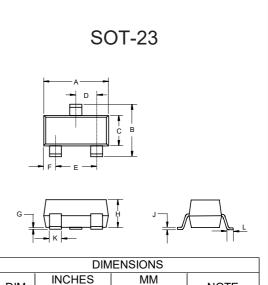
MCC Part Number	Device Marking
MMBD4148CA	D6
MMBD4148CC	D5
MMBD4148SE	D4

Parameter	Symbol	Value	
DC Reverse Voltage	V _R	100V	
Peak Repetitive Reverse Voltage	V _{RRM}	100V	
Working Peak Reverse Voltage	V _{RWM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	71V	
DC Forward Current	I _{FM}	600mA	
Average Rectified Current	I _{F(AV)}	200mA	
Repetitive Peak Forward Current	I _{FRM}	700mA	
Peak Forward Surge Current(t=1s)	I	1A	
(t=1µs)	I _{FSM}	2A	
Power Dissipation	P _D	350mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

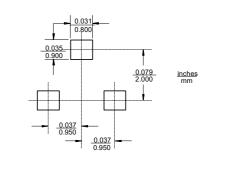


High Conductance Ultra Fast Diode 350mW



DIMENSIONS					
		HES	MM		NOTE
Divi	MIN		MIN	MAX	NOTE
A	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics	@ 25°C	(Unless Otherwise Specified)
-----------------------------------	--------	------------------------------

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current I _F		V _R =75V			1	μA
	I _R	V _R =20V			0.025	μA
		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			2	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			4	ns



Curve Characteristics

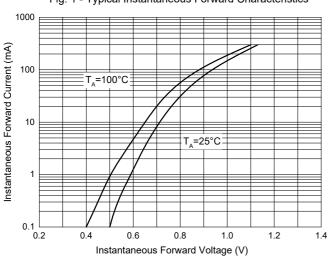
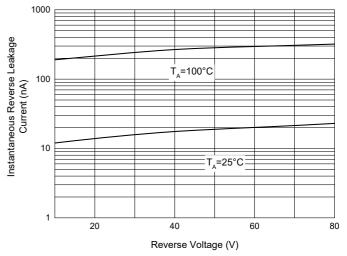
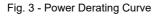
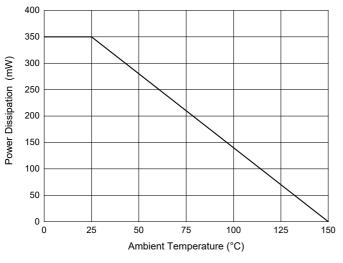


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Micro Commercial Components (MCC) manufacturer:

Other Similar products are found below :

 RD0306T-H
 BAQ33-GS18
 BAV17-TR
 BAV19-TR
 IN3611
 NTE156A
 NTE525
 NTE571
 NTE5804
 NTE5806
 NTE6244

 ISS181-TP
 ISS193,LF
 ISS400CST2RA
 SDAA13
 SHN2D02FUTW1TIG
 LS4151GS08
 IN4449
 IN456A
 IN4934-E3/73
 IN914B

 IN914BTR
 RFUH20TB3S
 BAS 28 E6327
 BAV199-TP
 BAW56DWQ-7-F
 BAW75-TAP
 MM230L-CAA
 IDW40E65D1
 JAN1N3600

 LL4151-GS18
 053684A
 SMMSD4148T3G
 707803H
 SP000010217
 ACDSW4448-HF
 CDSZC01100-HF
 BAV199E6433HTMA1

 BAV70M3T5G
 SMBT2001T1G
 NTE5800
 NTE5808
 NTE6240
 NTE6248
 DLM10C-AT1
 BAS28-7
 BAW56HDW-13
 BAS28

 TR
 IR
 IR