

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

## 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)

## **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	VIV	75	V
DC Forward Current	I <sub>FM</sub>	600	mA
Average Rectified Current	I <sub>F(AV)</sub>	200	mA
Recurrent Peak Forward Current	I <sub>FRM</sub>	700	mA
Peak Forward Surge Current@ t=1.0s @ t=1.0us	Ігѕм	1.0 2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance	R	357	°C/W
Operation & Storage Temp. Range	Tj, T <sub>stg</sub>	-55 to +150	°C

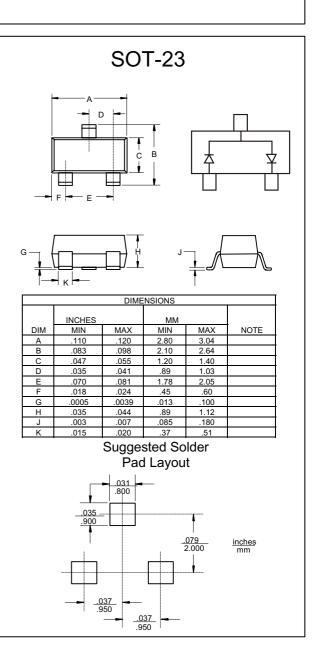
Note: 1) These ratings are based on a max junction temperature of 150 degrees C
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operation

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
Breakdown Voltage	V <sub>R</sub>	75		V	I <sub>R</sub> =5uA
Maximum Instantaneous Forward Voltage	$V_{F}$		1.0	V	I <sub>F</sub> =10mA
Maximum			25	nA	V <sub>R</sub> =20V
Instantaneous Reverse	I <sub>R</sub>		50	uA	V <sub>R</sub> =20V T <sub>A</sub> =150°C
Current			5.0	uA	V <sub>R</sub> =75V
Junction Capacitance	Cj		4	pF	V <sub>R</sub> =0V, f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>		4	ns	I <sub>F</sub> =10mA, V <sub>R</sub> =6.0V,
					I <sub>RR</sub> =1.0mA,
					R <sub>L</sub> =100 OHM

# MMBD4148SE

# High Conductance Ultra Fast Diode 350mW



## www.mccsemi.com

**Revision:** A

2011/01/01



## **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.

