

20736 Marilla Street, Chatsworth, CA91311 Tel:818-701-4933 Fax:818-701-4939

Process Change Notification

Jan-1st-2011

Subject : MCC Process Change Notification#PCN_010111

Title: MCC revise the pn# designation for MMBD1501A~MMBD1505A

Effective Date : Apr-1st-2011

Reliability Data: Available per individual request

Samples contact: Sales@mccsemi.com

For question concerning this notification: techsupport@mccsemi.com

Description and purpose:

For our products MMBD1501~MMBD1505 has the same electrical & mechanical performances with MMBD1501A~MMBD1505A series, now in order to facilitate our customers to select our products more easier, we decide to combine them together and just use MBD1501~MMBD1505 as standard product from now on. This adjustment will not bring any function difference in the field application.



Micro Commercial Components



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

MMBD1501(A) THRU MMBD1505(A)

High Conductance
Low Leakage Diode
350mW

Features

- Low Leakage
- Surface Mount Package Ideally Suited for Auto 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
- Polarity: See Diagram
- Weight: 0.008 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

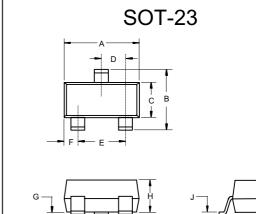
Characteristic	Symbol	Value	Unit
Working Inverse Voltage	V_{IV}	180	V
DC Forward Current	lF	600	mA
Average Rectified Current	lo	200	mA
Recurrent Peak Forward Current	İf	700	mA
Peak Forward Surge Current @t=1.0s @t=1.0ms	f(curae)	1.0 2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance, Junction to Ambient	R _{0JA}	357	°C/W
Operation & Storage Temp. Range	Тj, Тsтg	-55 to +150	°C

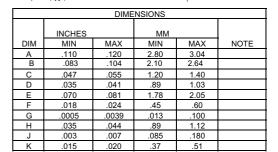
Note: 1) These ratings are based on a max. junction temperature of 150 degrees C

 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	B∨	200		V	I _R =5.0uA
Forward Voltage Drop	VF	620 720 800 0.83 0.87 0.9	750 850 950 1.1 1.3 1.5	mV mV v v	I _F =1.0mA I _F =10mA I _F =50mA I _F =100mA I _F =300mA
Reverse Current	I _R		10 5.0	nA uA	V _R =180V V _R =180V T _A =150°C
Junction Capacitance	Cj		4	pF	V _R =0V, f=1.0MHz





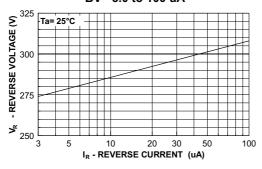
Suggested Solder Pad Layout

MMBD1501(A) thru MMBD1505(A)

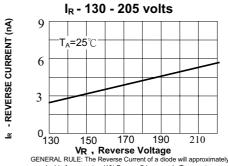


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REVERSE VOLTAGE vs REVERSE CURRENT BV - 3.0 to 100 uA

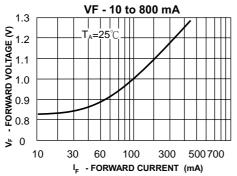


Reverse Current Vs Reverse Voltage

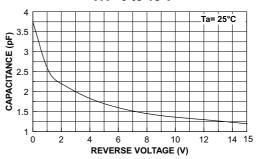


double for every ten (10) Degree C increase in Temperature

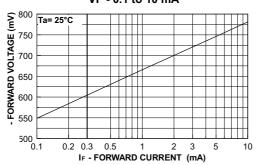
FORWARD VOLTAGE vs FORWARD CURRENT



CAPACITANCE vs REVERSE VOLTAGE VR - 0 to 15 V

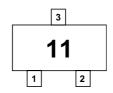


FORWARD VOLTAGE vs FORWARD CURRENT VF - 0.1 to 10 mA



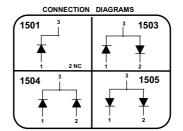
MMBD1501(A) thru MMBD1505(A)





MARKING

MMBD1501(A) 11/A11 MMBD1503(A) 13/A13 MMBD1504(A) 14/A14 MMBD1505(A) 15/A15





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Ordering Information:

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

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MMBD1503-TP MMBD1505-TP MMBD1504-TP MMBD1501-TP