

Micro Commercial Components

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Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Low Leakage
- Surface Mount Package Ideally Suited for Automatic Insertion
- 150C 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
- 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(surge)	1.0 2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance, Junction to Ambient	R _{0JA}	357	°C/W
Operation & Storage Temp. Range	Tj, Tstg	-55 to +150	°C

Note: 1) These ratings are based on a max junction temperature of 15D 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

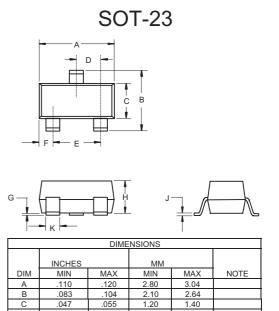
Charateristic	Symbol	Min	Max	Unit	Test Cond.
Breakdown Voltage	Βv	200		V	I _R =5.0uA
Forward Voltage Drop	VF	620 720 800 0.83 0.87 0.9	750 850 950 1.1 1.3 1.5	mV mV v v v	I⊧=1.0mA I⊧=10mA I⊧=50mA I⊧=100mA I⊧=200mA I⊧=300mA
Reverse Current	I _R		10 5.0	nA uA	V _R =180V V _R =180V T _A =150°C
Junction Capacitance	Cj		4	pF	V _R =0V, f=1.0MHz

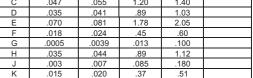
MMBD1501 THRU MMBD1505

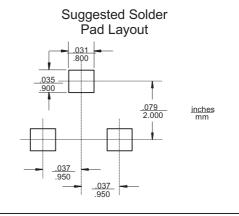
High Conductance

Low Leakage Diode

350mW







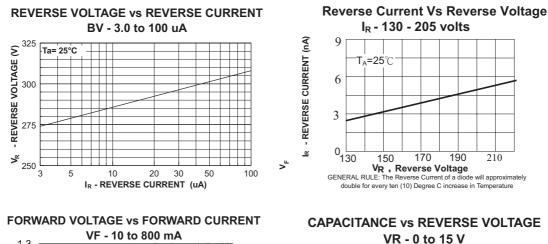
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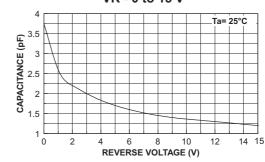
1 of 4

MMBD1501thru MMBD1505

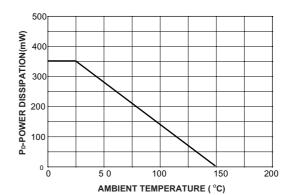


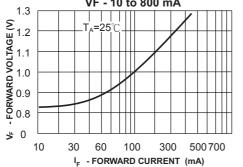
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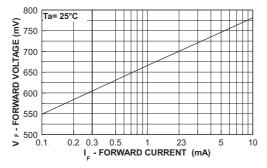






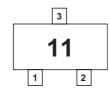


FORWARD VOLTAGE vs FORWARD CURRENT VF - 0.1 to 10 mA



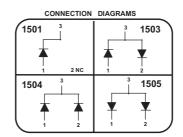
MMBD1501 thru MMBD1505





MARKING

MMBD1501	11
MMBD1503	13
MMBD1504	14
MMBD1505	15



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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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