

Features

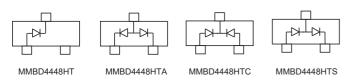
- · Fast Switching Speed
- High Conductance, Power Dissipation
- · Ultra-Small Surface Mount Package
- · For General Purpose Switching Applications
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

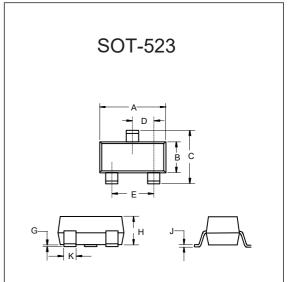
- Operating Junction Temperature Range: 150° C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance:833°C/WJunction to Ambient

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4448HT	А3	80V	57V	80V
MMBD4448HTA	A6	80V	57V	80V
MMBD4448HTC	A7	80V	57V	80V
MMBD4448HTS	AB	80V	57V	80V
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V		
Working Peak Reverse Voltage	V_{RWM}	80V		
Forward Continuous Current	I _{FM}	500mA		
Average Rectified Output Current	I _o	250mA		
Peak Forward Surge Current	I _{FSM}	4.0A 2.0A	@1.0µs @1.0s	
Power Dissipation	P_{D}	150mW		

Internal Structure

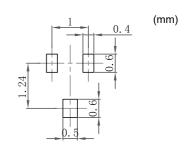


150mW Switching Diodes



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020 Nominal 0.50			lominal		
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout





MMBD4448HT,MMBD4448HTA,MMBD4448HTC,MMBD4448HTS

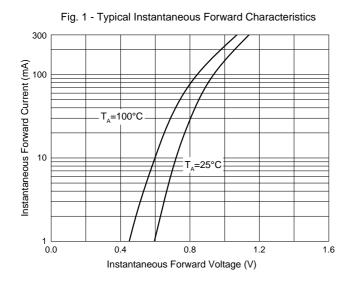
Electrical Characteristics @ 25°C Unless Otherwise Specified

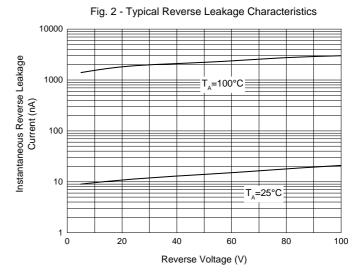
Minimum Breakdown Voltage	V_{BR}	80V	I _R =2.5μA
Maximum Forward Voltage	V _F	0.720V 0.855V 1.000V 1.250V	I _F =5.0mA I _F =10.0mA I _F =50.0mA I _F =150.0mA
Minimum Forward Voltage	V _F	0.620V	I _F =5.0mA
Maximum Peak Reverse voltage	I _R	0.1μA 25nA	V _R =70V V _R =20V
Maximum Total Capacitance	Ст	3.5pF	V _R =6.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	4.0ns	I _F =5mA, V _R =6V

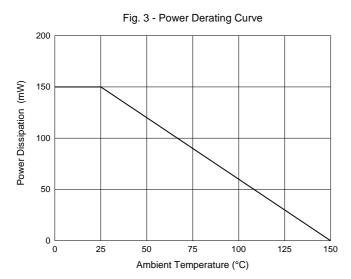
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Curve Characteristics







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MMBD4448HT,MMBD4448HTA,MMBD4448HTC,MMBD4448HTS

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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