

Features

- · Fast Switching Speed
- High Conductance, Power Dissipation
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- 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)

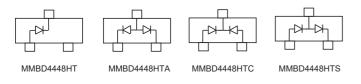
Maximum Ratings

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

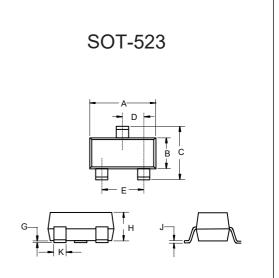
MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4448HT	A3	80V	57V	80V
MMBD4448HTA	A6	80V	57V	80V
MMBD4448HTC	A7	80V	57V	80V
MMBD4448HTS	AB	80V	57V	80V
Non-Repetitive Peak Reverse Voltage	V _{RM}	100V		
Working Peak Reverse 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 1.0A	@1.0µs @8.3ms @1.0s	
Power Dissipation	P _D	150mW		

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

Internal Structure

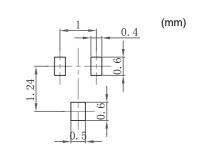


150mW Switching Diodes



DIMENSIONS					
DIM	INCHES		MM		NOTE
Divi	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 Nominal		
E	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



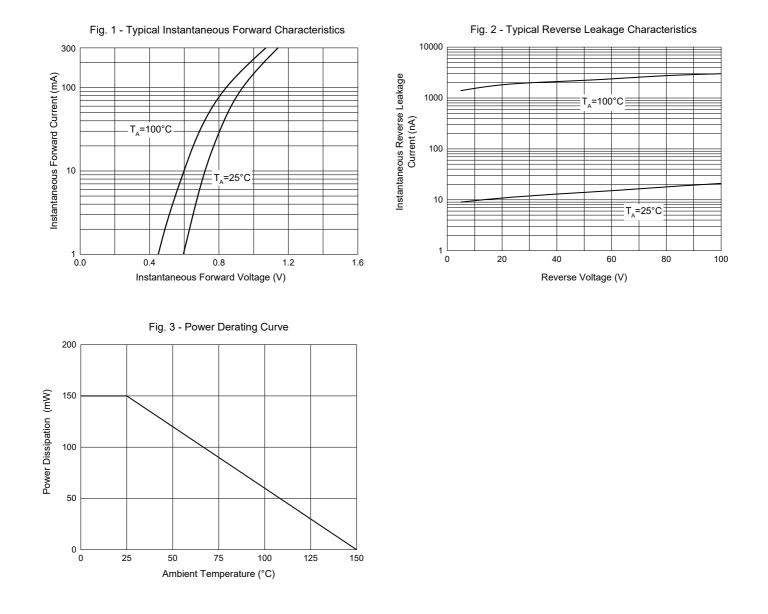


Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Breakdown Voltage	V _{BR}	80V	Ι _R =2.5μΑ
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	C _T	3.5pF	V _R =6.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	4.0ns	I _F =5mA, V _R =6V



Curve Characteristics





Ordering Information

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

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