

- AEC-Q101 Qualified
- Fast Switching Speed
- Ultra-Small Surface Mount Package
- High Conductance, Power Dissipation
- 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

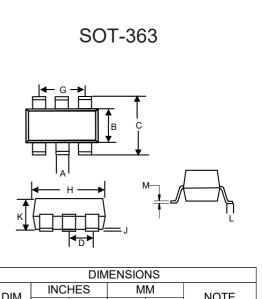
- Operating Junction Temperature : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2):625°C/W Junction to Ambient

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4448HSDWHE3	KAB	80V	57V	80V
MMBD4448HTWHE3	KAA	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	l _o	250mA	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4.0A 1.5A	@ t=1.0us @ t=1.0s
Power Dissipation	P _D	200mW	

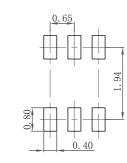
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds. Note: 2. Part mounted on FR-4 board with recommended pad layout.

200mW Switching Diodes



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.006	0.014	0.15	0.35	
В	0.045	0.053	1.15	1.35	
С	0.079	0.096	2.00	2.45	
D	0.026		0.65 Nominal		
G	0.047	0.055	1.20	1.40	
Н	0.071	0.087	1.80	2.20	
J		0.004		0.10	
K	0.031	0.043	0.80	1.10	
L	0.010	0.018	0.26	0.46	
М	0.003	0.006	0.08	0.15	

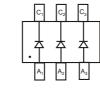
Suggested Solder Pad Layout

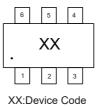




Internal Structure and Marking Code







MMBD4448HSDWHE3

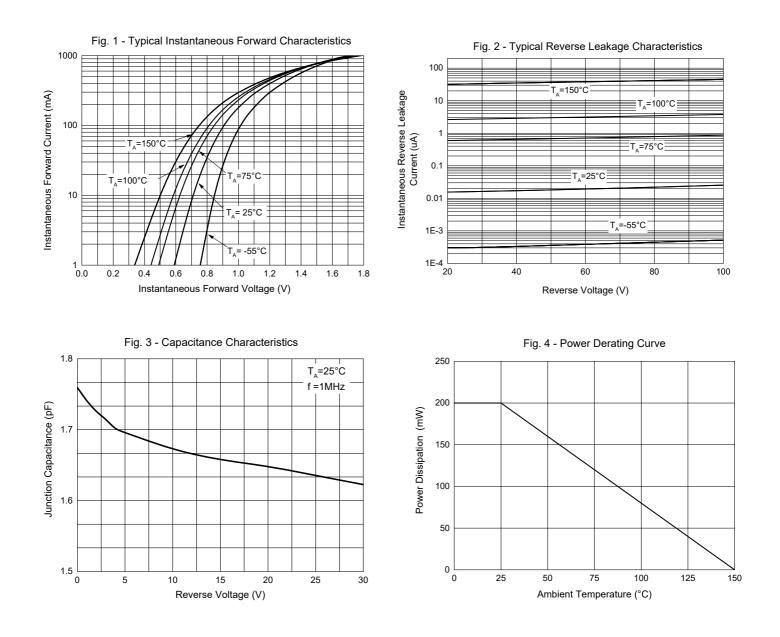
MMBD4448HTWHE3

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Breakdown Voltage	V _{BR}	Ι _R =100μΑ	80			V	
Forward Voltage	V _F	I _F =5.0mA	0.620		0.720	V	
		I _F =10.0mA			0.855		
		I _F =50.0mA			1.000		
		I _F =150.0mA			1.250		
Peak Reverse voltage	I _R	V _R =20V			25	nA	
		V _R =70V			100		
Junction Capacitance	CJ	V _R =0.0V,f=1.0MHz 2		2		pF	
Reverse Recovery Time	t _{rr}	$I_{F}=10mA, I_{R}=10mA \\ I_{rr}=0.1^{*}I_{R}, R_{L}=100\Omega$		4.0		ns	



Curve Characteristics





Ordering Information

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

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