

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD4448HT/ HTA/HTC/HTS

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance, Power Dissipation
- Ultra-Small Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

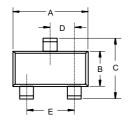
Symbol	Rating	Rating	Unit	
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V	
V_{RRM}	Peak Repetitive Reverse Voltage			
V_{RWM}	Working Peak Reverse Voltage	80	V	
V_R	DC Blocking Voltage			
$V_{R(RMS)}$	RMS Reverse Voltage	57	V	
I _{FM}	Forward Continuous Current	500	mA	
Ιo	Average Rectified Output Current	250	mA	
I _{FSM}	Peak Forward Surge Current @1.0 μ s	4.0	Α	
	@1.0s	2.0	A	
R _B JA	Thermal Resistance Junction to Ambient	833	°C/W	
P_{D}	Power dissipation	150	mW	
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$	
T _{STG}	Storage Temperature	-65 to +150	$^{\circ}\mathbb{C}$	

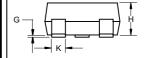
Electrical Characteristics @ 25°C Unless Otherwise Specified

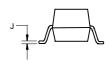
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Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	80V		I _R =2.5 μ A
I _R	Reverse Voltage Leakage Current		0.1 μ A 25 nA	V _R =70V V _R =20V
V _F	Forward Voltage	0.62 	0.72V 0.855V 1.0V 1.25V	I _F =5.0mA I _F =10mA I _F =100mA I _F =150mA
Ст	Total Capacitance		3.5pF	V _R =6V, f=1MHZ
t _{rr}	Reverse Recovery Time		4.0ns	I _F =5mA, VR=6V

150mW Switching Diodes

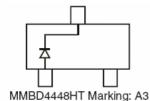
SOT-523

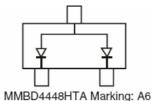


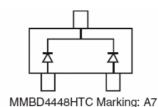


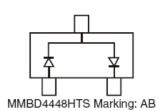


DIMENSIONS					
	INCHES		М	M	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 No	ominal	0.50Nom	inal	
Е	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	







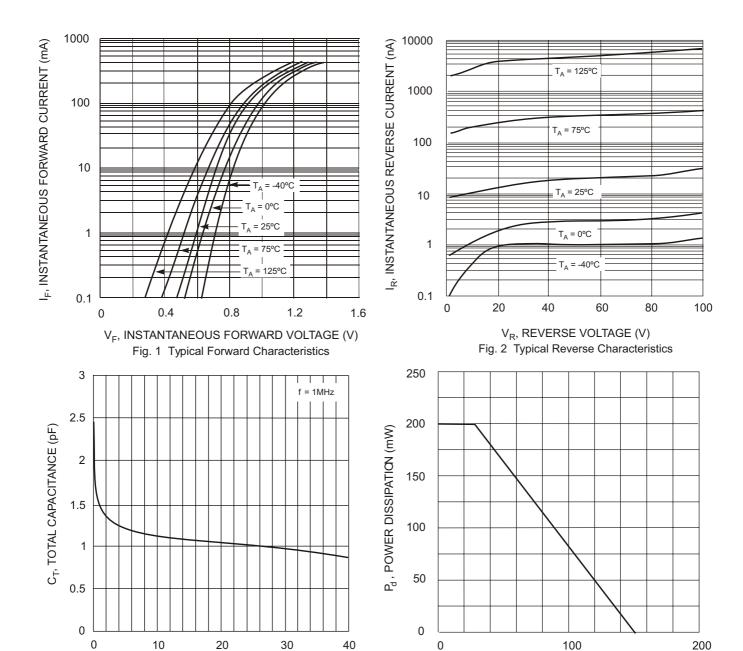


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 T_A , AMBIENT TEMPERATURE (°C)

Fig. 4 Power Derating Curve, Total Package



 V_R , REVERSE VOLTAGE (V)

Fig. 3 Typical Capacitance vs. Reverse Voltage



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Ordering Information:

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

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