

Micro Commercial Components

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

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Polarity: See Diagram
- Marking: KA3

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	V _{RM}	100	V
Peak Repetitive Reverse Voltage	Vrrm		
Working Peak Reverse Voltage	VRWM	75	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	53	V
Forward Continuous Current(Note1)	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak @ t<=1.0s	IFSM	2	А
Forward Surge Current @ t=1.0us		4	А
Power Dissipation(Note 1)	Pd	350	mW
Thermal Resistance(Note 1)	R	357	K/W
Operation/Storage Temp. Range	Тј, Тѕтс	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
		0.62	0.72		I _F =5.0mA
Maximum Forward	Vfм		0.855	V	l⊧=10mA
Voltage Drop			1		l⊧=100mA
			1.25		l⊧=150mA
			2.5	uA	V _R =75V
Maximum Peak	Irm		50	uA	V _R =75V Tj=150°C
Reverse Current			30	uA	V _R =25V Tj=150°C
			25	nA	V _R =20V
Junction Capacitance	Cj		4	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	trr		4	ns	

Note: 1. Valid provided that terminals are kept at ambient temperature 2. Trr Test Condition: IF=IR=10mA, Irr=0.1*IR, R=100 OHM

Surface Mount

MMBD4448

Switching Diode 350mW





DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



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MMBD4448



Instantaneous Forward Voltage - Volts



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Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C



Reverse Voltage - Volts

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Junction Temperature -°C



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

T_A=25°C

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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