



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

WBFBP-06C Plastic-Encapsulate Diode

FMMBD4448HADW

SURFACE MOUNT SWITCHING DIODE ARRAYS

DESCRIPTION

Silicon epitaxial planar
Switching Diode

FEATURES

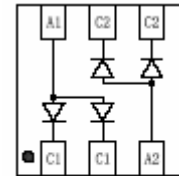
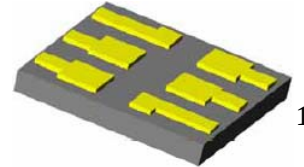
- Ultra-Small Surface Mount Package
- Fast Switching Speed
- High Conductance

APPLICATION

For General Purpose Switching Applications, rectifiers
For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM,
DVD-ROM, Note book PC, etc.)

WBFBP-06C

(2×2×0.5)
unit: mm



FMMBD4448HADW
Marking:KA6

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	100	V
Peak Repetitive peak reverse voltage	V _{RRM}	80	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	57	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	I _O	250	mA
Non-Repetitive Peak forward surge current @=1.0μs @=1.0s	I _{FSM}	4.0 2.0	A
Power Dissipation	P _d	150	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	°C/W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-65 to +150	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _R	80			V	I _R =100 μ A
Forward voltage	V _{F1}	0.62		0.72	V	I _F =5mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1.0	V	I _F =100mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _{R1}			0.1	μA	V _R =70V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	C _T			3.5	pF	V _R =6V,f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	V _R =6V,I _F =5mA

Typical Characteristics

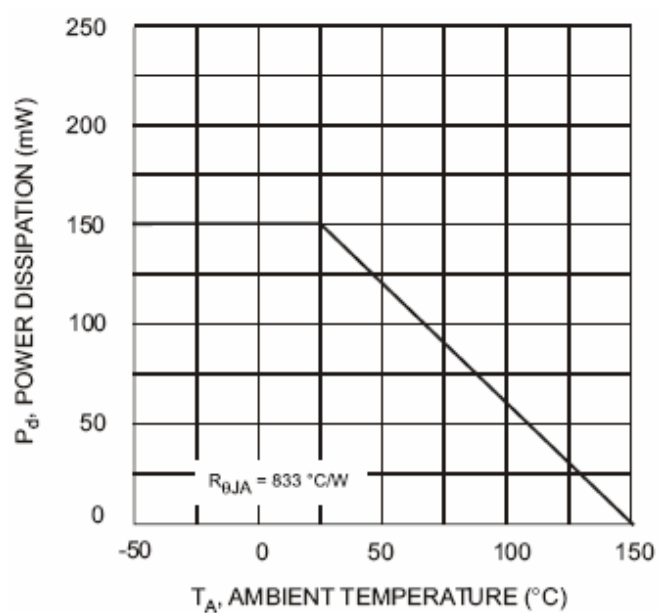


Fig. 1, Derating Curve - Total

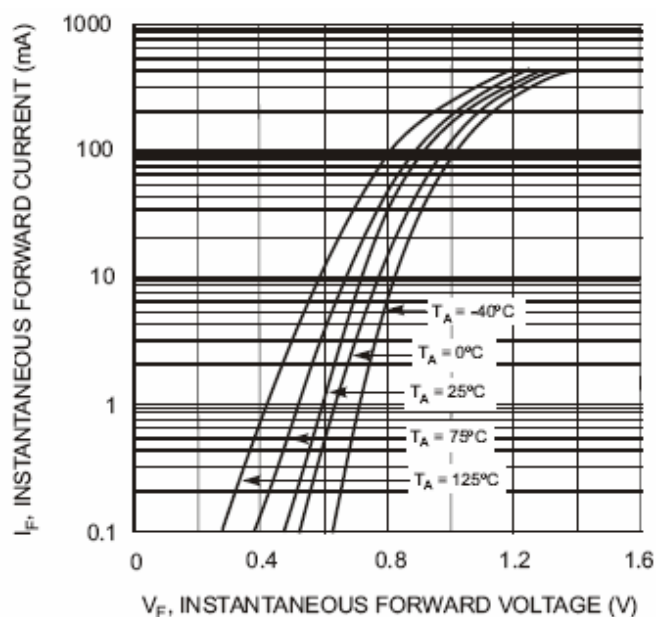


Fig. 2 Typical Forward Characteristics

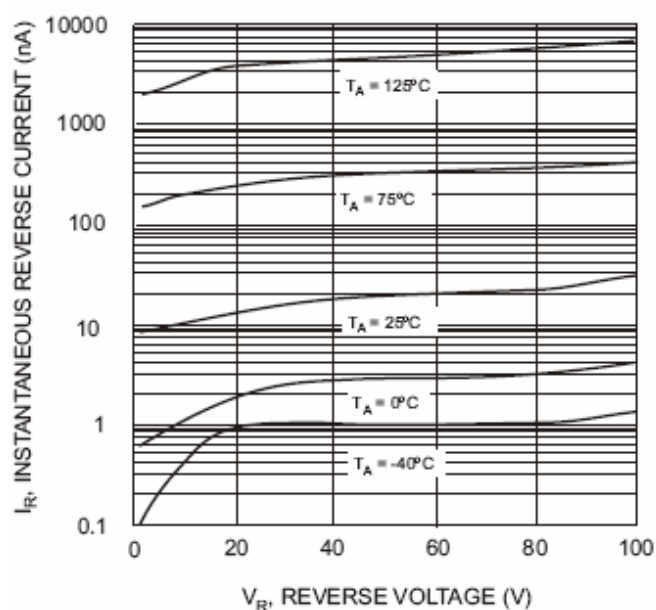


Fig. 3 Typical Reverse Characteristics

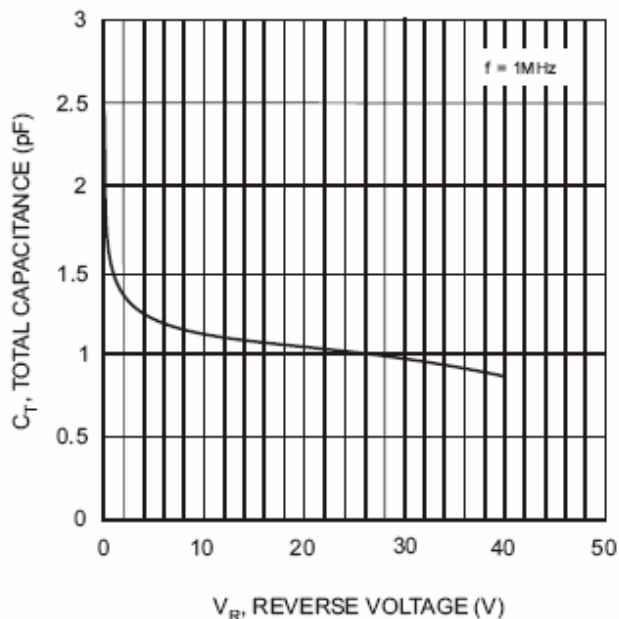
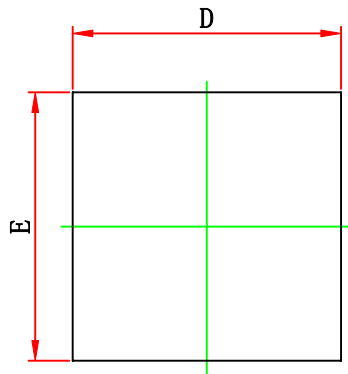


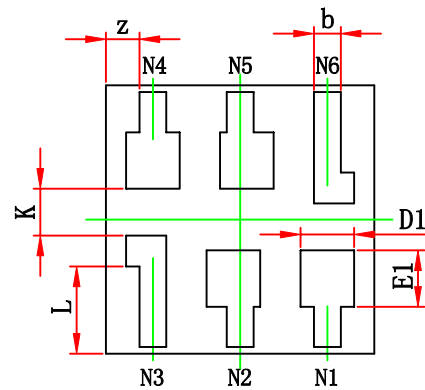
Fig. 4 Typical Capacitance vs. Reverse Voltage



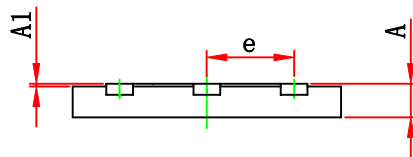
WBFBP-06C(2×2×0.5) PACKAGE OUTLINE DIMENSIONS



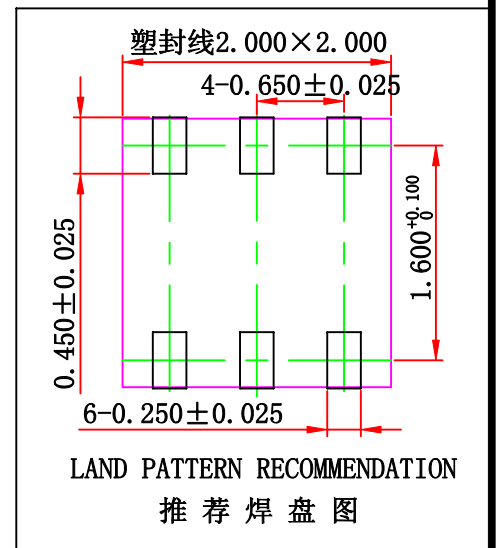
TOP VIEW



BOTTOM VIEW

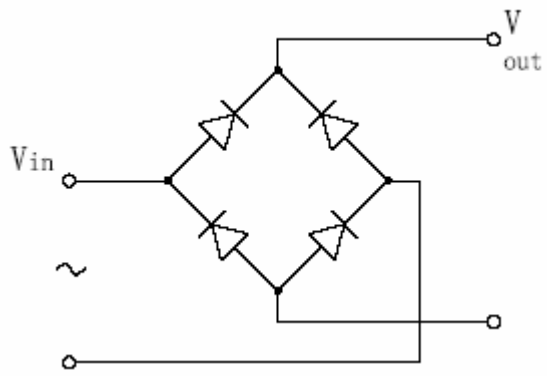


SIDE VIEW



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.000	0.100	0.000	0.004
b	0.150	0.250	0.006	0.010
D	1.900	2.100	0.075	0.083
E	1.900	2.100	0.075	0.083
D1	0.420 REF.		0.017 REF.	
E1	0.420 REF.		0.017 REF.	
e	0.650 TYP.		0.026 TYP.	
L	0.650 REF.		0.026 REF.	
k	0.350 REF.		0.014 REF.	
z	0.500 REF.		0.020 REF.	

APPLICATION CIRCUITS



Bridge rectifiers

This datasheet has been download from:

www.cj-elec.com

Datasheets for electronics components