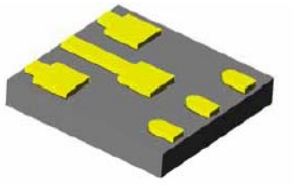
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

WBFBP-06C Plastic-Encapsulate Diode

FBAS40TW

SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

WBFBP-06C
(2×2×0.5)
unit: mm



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DESCRIPTION

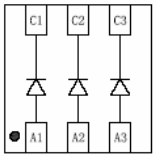
Silicon epitaxial planar
PN Junction Guard Ring for Schottky Diode

FEATURES

- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package

APPLICATION

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



FBAS40TW
Marking:K43

Maximum Ratings @T_A=25℃

Parameter	Symbol	Limits	Unit
Peak Repetitive reverse voltage **DC Blocking Voltage**	V_{RM} V_R	40	V
Average Rectified Output Current	I_O	40	mA
Power Dissipation	Pd	150	mW
Thermal Resistance. Junction to Ambient Air	$R_{\theta}JA$	625	℃/W
Junction temperature	T_J	125	℃
Storage temperature range	T_{STG}	-65-125	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse voltage leakage current	I_R	V_R=30V		200	nA
Forward voltage	V_F	I_F=1mA I_F=40mA		380 1000	mV
Total capacitance	C_T	V_R=0,f=1MHz		5	pF
Reverse recovery time	t_{rr}	I_F= I_R=10mA,Irr=0.1×I_R, R_L=100Ω		5	nS

Typical Characteristics

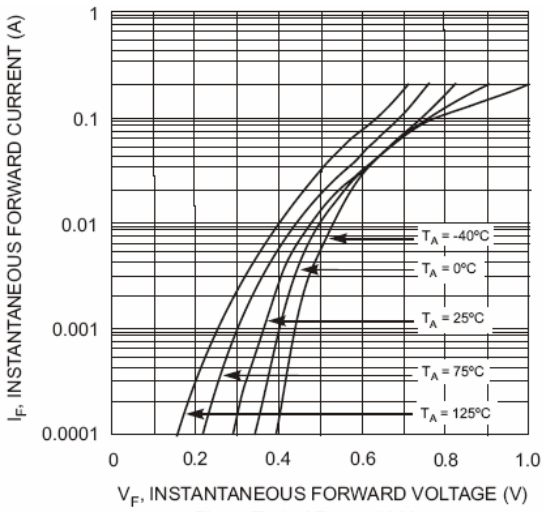


Fig. 1 Typical Forward Voltage

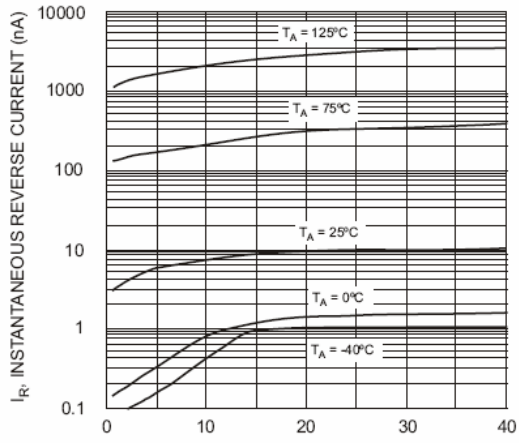


Fig. 2 Typical Reverse Characteristics

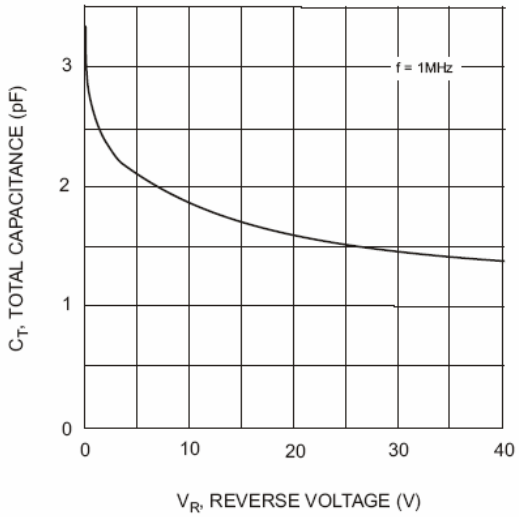


Fig. 3 Typical Capacitance

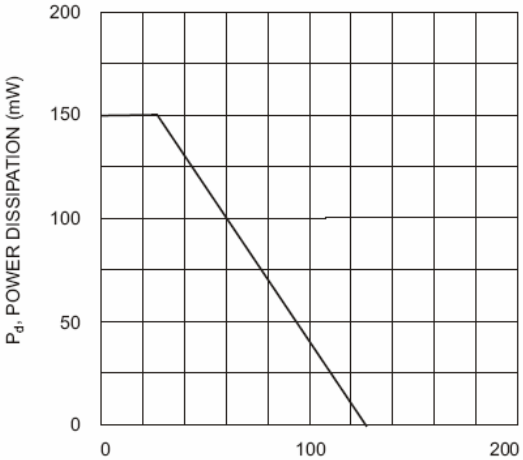
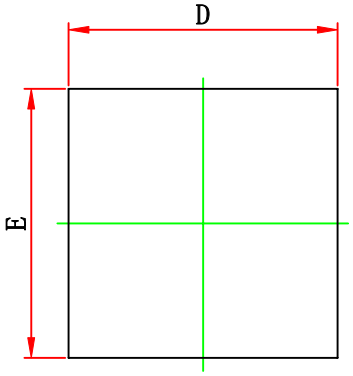
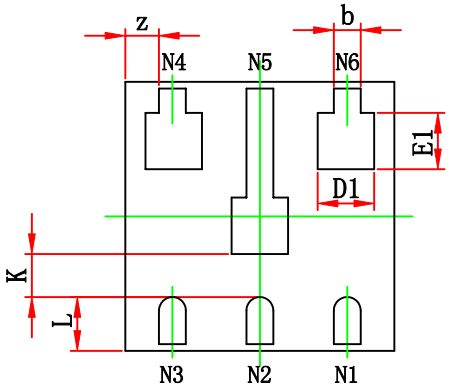


Fig. 4 Power Derating Curve, Total Package

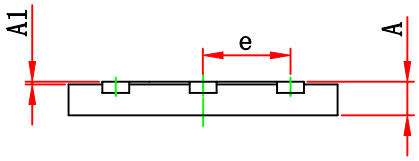
WBFBP-06C(2×2×0.5) PACKAGE OUTLINE DIMENSIONS



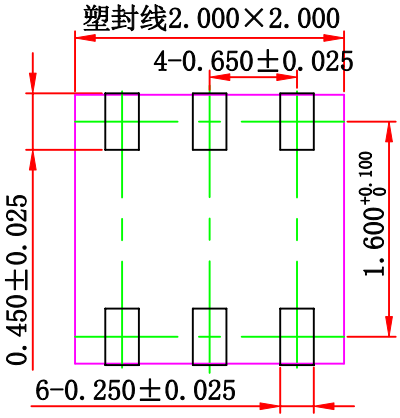
TOP VIEW



BOTTOM VIEW



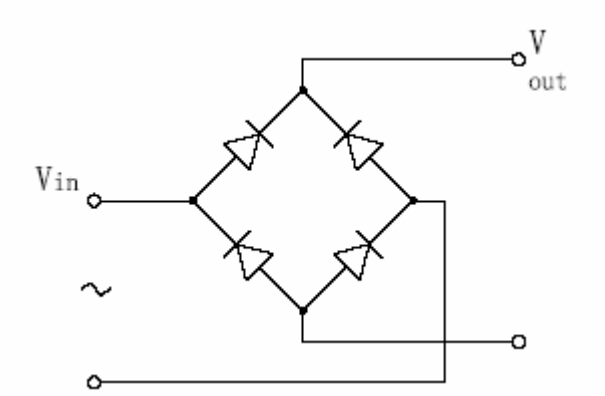
SIDE VIEW



LAND PATTERN RECOMMENDATION
推 荐 焊 盘 图

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	0.400 REF.		0.016 REF.	
k	0.300 REF.		0.012 REF.	
z	0.500 REF.		0.020 REF.	

APPLICATION CIRCUITS



Bridge rectifiers