

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## DESCRIPTION

- Epitaxial planar Silicon diode

## FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance

## APPLICATIONS

- High Conductance Ultra Fast Diode
- For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM, Note book PC, etc.)

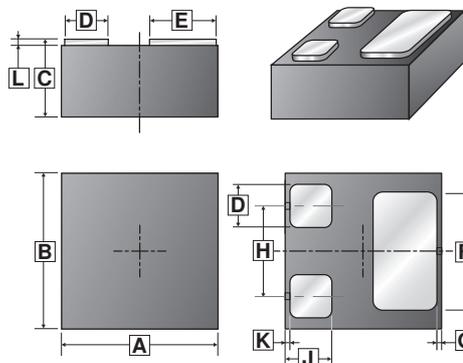
## MARKING

A3

## PACKAGE INFORMATION

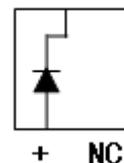
Package	MPQ	Leader Size
WBFBP-03D	5K	7 inch

## WBFBP-03D



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.950	1.050	G	-	0.050
B	0.950	1.050	H	0.510	0.610
C	0.010	0.070	J	0.250	0.350
D	0.210	0.310	K	-	0.050
E	0.350 REF.		L	0.450	0.550
F	0.680 REF.				

## TOP VIEW



## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameters	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	80	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	80	V
DC Blocking Voltage	V <sub>R</sub>	80	V
Non-Repetitive Peak reverse voltage	V <sub>RM</sub>	100	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	57	V
Forward Continuous Current	I <sub>FM</sub>	500	mA
Average Rectified Output Current	I <sub>O</sub>	250	mA
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	t=1.0μs	4
		t=1.0s	2
Power Dissipation	P <sub>D</sub>	100	mW
Thermal Resistance, Junction to Ambient	R <sub>θJA</sub>	1250	°C / W
Storage Temperature	T <sub>STG</sub>	-65~150	°C

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise specified)

Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Forward Voltage	$V_{F1}$	0.62	0.72	V	$I_F=5\text{mA}$
	$V_{F2}$	-	0.855	V	$I_F=10\text{mA}$
	$V_{F3}$	-	1	V	$I_F=100\text{mA}$
	$V_{F4}$	-	1.25	V	$I_F=150\text{mA}$
Maximum DC Reverse Current at rated DC blocking voltage	$I_{R1}$	-	0.1	$\mu\text{A}$	$V_R=70\text{V}$
	$I_{R2}$	-	25	nA	$V_R=20\text{V}$
Reverse Breakdown Voltage	$V_R$	80	-	V	$I_R=2.5\mu\text{A}$
Capacitance between terminals	$C_T$	-	3.5	pF	$V_R=6\text{V}, f=1\text{MHz}$
Maximum Reverse Recovery Time	$T_{RR}$	-	4	nS	$V_R=6\text{V}, I_F=5\text{mA}$

**CHARACTERISTIC CURVES**

