



## DESCRIPTION

The JEB05BCDS-A is an ultra lo


**ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^{\circ}\text{C}$ , RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation on 8/20 $\mu\text{s}$ waveform	$P_{PP}$	41	W
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	+/- 25 +/- 25	kV
Lead soldering temperature	$T_L$	260 (10 sec.)	
Operating junction temperature range	$T_J$	-55 to +125	
Storage temperature range	$T_{STG}$	-55 to +150	

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

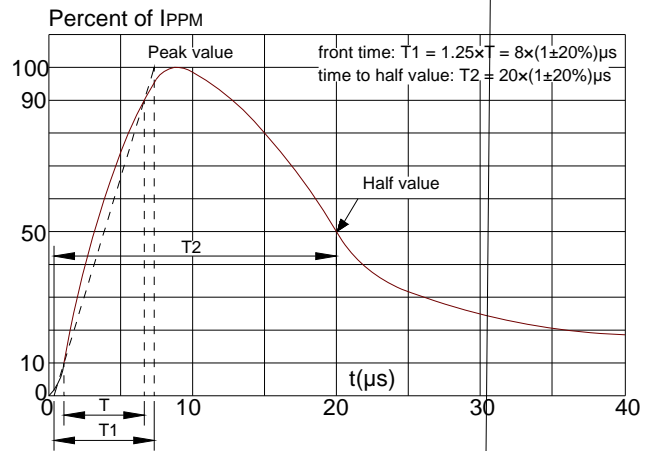
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	$V_{RWM}$				5.0	V
Reverse breakdown voltage	$V_{BR}$	$I_{BR}=1\text{mA}$	5.3			V
Reverse leakage current	$I_R$	$V_{RWM}=5\text{V}$			0.1	$\mu\text{A}$
Holding voltage	$V_H$	$I_H=50\text{mA}$	5.3			V
Clamping voltage	$V_C$	$I_{PP}=16\text{A}$ , $t_P=100\text{ns}$		15		V
Clamping voltage	$V_C$	$V_{ESD}=8\text{kV}$		15		V
Clamping voltage	$V_C^{\text{③}}$	$I_{PP}=1\text{A}$ , $t_P=8/20\mu\text{s}$			8.5	V
		$I_{PP}=3.5\text{A}$ , $t_P=8/20\mu\text{s}$			12	V



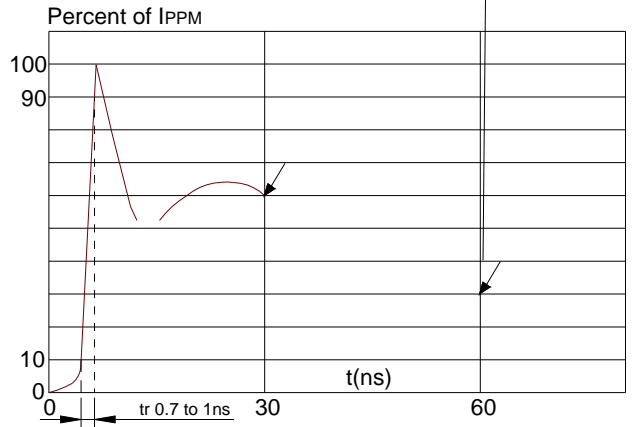
RATINGS AND V I CHARACTERISTICS CURVES (T<sub>A</sub>=25°C, unless otherwise noted)

**FIG.1:V- I curve characteristics (Bi-directional)**

**FIG.2: Pulse waveform (8/20μs)**



**FIG.4: ESD clamping (30kV contact)**





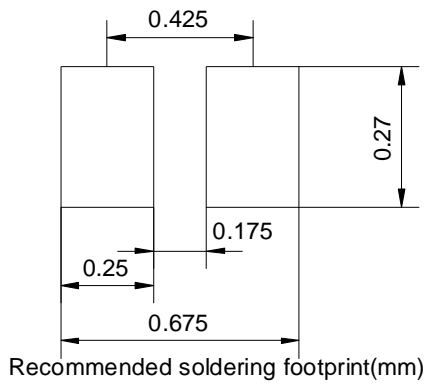
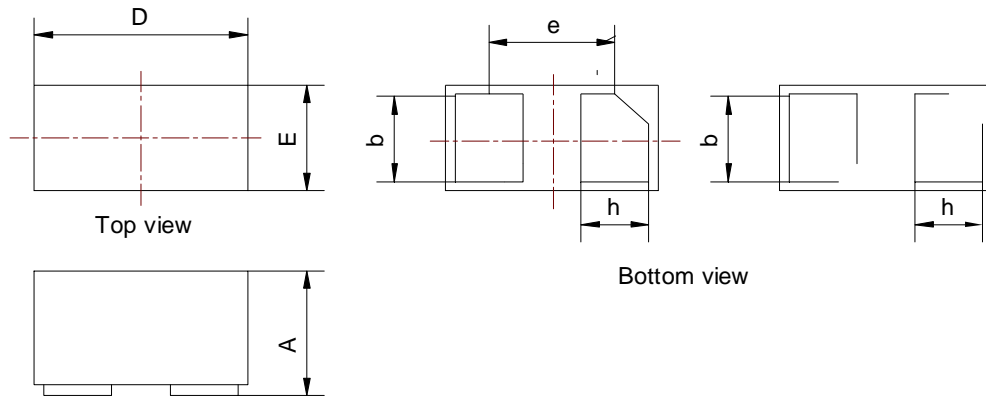
### SOLDERING PARAMETERS

Reflow Condition	Pb-Free assembly (see figure at right)
------------------	---

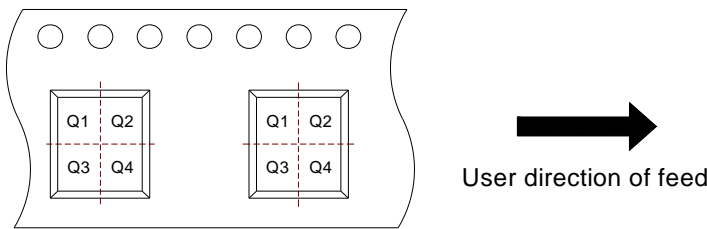
Pre



PACKAGE MECHANICAL DATA



TAPE AND REEL INFORMATION DFN0603-2L



Pin 1 quadrant: Q1&Q2

**Packaging Description:**

DFN0603-2L parts are shipped in tape. The carrier tape is made from a dissipative(carbon filled) polycarbonate resin. The cover tape is a multilayer film(heat activated

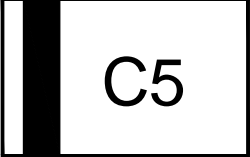
Symbol	Millimeters	Inches
	Typ.	Typ.
a	0.41	0.016
B	0.70	0.028
C	0.38	0.015
d	- 1.50	- 0.059
E	1.75	0.069
F	3.50	0.138
P0	4.00	0.157
P	2.00	0.079
P1	2.00	0.079
W	8.00	0.315
D	- 178	- 7.008
D1	54.40	2.142
D2	13.00	0.512
G	R78.00	R3.071
H	R25.60	R1.008
I	R6.50	R0.256
W1	9.50	0.374
W2	12.30	0.484

**ORDERING INFORMATION**

PART No.	PACKAGE TYPE	QUANTITY(PCS) REEL	DESCRIPTION
JEB05BCDS-A	DFN0603-2L	10,000	7 inch reel pack



MARKING CODE

Part Number	Marking Code
JEB05BCDS-A	PIN 1 

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co.,Ltd assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 1.2nd version which is made in 13-Aug-2020. This document supersedes and replaces all information previously supplied.



is a registered trademark of Jiangsu JieJie Microelectronics Co.,Ltd.

Copyright ©2020 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.