

& d h Z ^

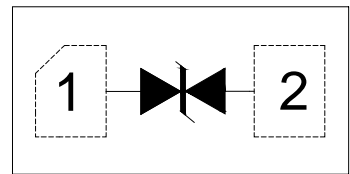
- Protects one bi-directional I/O line
- Low clamping voltage
- Low operating voltage: 12V
- RoHS compliant
- AEC-Q101 qualified



DFN1006-2L(Bottom view)

D / E W W > / d / K E ^

—



Pin Configuration(Top view)

- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 6A (8/20µs)

D , E / > , Z d Z / ^ d / ^

- DFN1006-2L package
- Molding compound flammability rating : UL 94V-0
- Quantity per reel : 10,000pcs
- Lead finish : lead free
- Marking code ÖAF

^ K > h d D y / D h D Z _{T A=25°C} E, R_H=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation at 8/20µs waveform	P _{PP}	150	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	+/-30	kV
ESD per IEC 61000-4-2 (Contact)		+/-30	
Lead soldering temperature	T _L	260 (10 sec.)	
Operating junction temperature range	T _J	-55 to +150	
Storage temperature range	T _{STG}	-55 to +150	

Z_d , Z_d

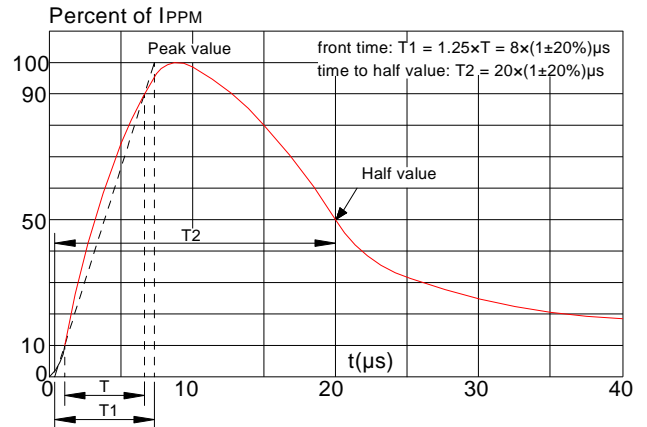
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	V_{RWM}				12	V
Reverse breakdown voltage	V_{BR}	$I_T=1mA$	13.3			V
Reverse leakage current	I_R	$V_{RWM}=12V$			200	nA
Peak pulse current	I_{PP}	$t_P=8/20\mu s$			6	A
Clamping voltage	V_C	$I_{PP}=1A, t_P=8/20\mu s$		16	20	V
		$I_{PP}=6A, t_P=8/20\mu s$		22	26	V
Junction capacitance	C_J	$V_{RWM}=0V, f=1MHz$		16		pF

Z_d , Z_d

(2

5 n

FIG.2: Pulse waveform (8/20μs)



^ K > Z / E ' W Z D d Z ^

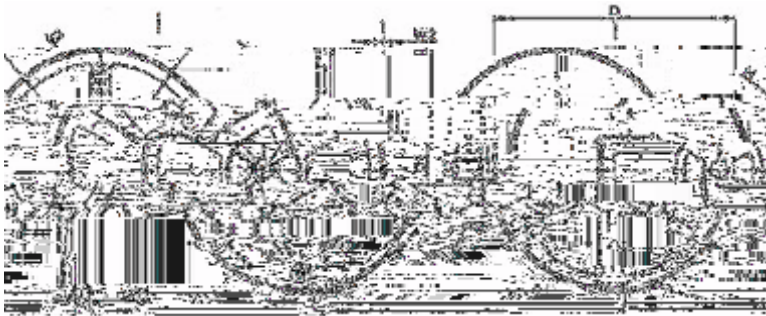
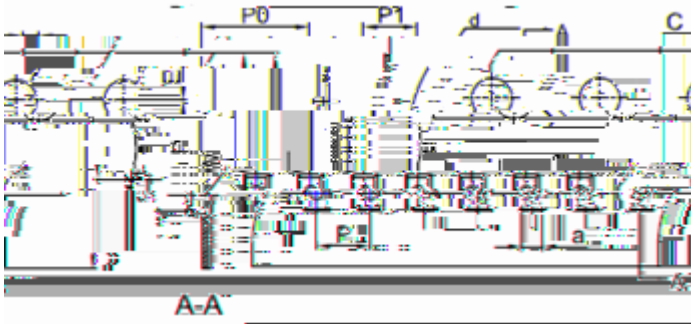
Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150
	-Temperature Max($T_{s(max)}$)	+200
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp (T_L)to peak)		3 /sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature(T_L)(Liquidus)	+217
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)

Time within 5 of actual Peak Temp (t_p) /sec. Max

y floup Q

: íî &r h

W E Z > /E&KZD d/KE r &



Packaging Description:

DFN1006-2L 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 adhesive in nature)primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 10,000units per 7" or 17.8cm diameter reel. The reels are clear in color and made of polystyrene plastic(anti-static coated).

Symbol	Millimeter	Inches
	Typ.	Typ.
a	0.66	0.026
B	1.15	0.045
C	0.66	0.026
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

KZ Z/E' /E&KZD d/KE

PART No.	Package	Quantity Per Reel	Description
JEB12DF-AU	DFN1006-2L	10,000 pcs	7 inch reel pack

D Z < / E ' K

Part Number	Marking Code	
JEB12DF-AU	<table border="1"><tr><td data-bbox="853 324 1082 474">AF</td></tr></table>	AF
AF		

JieJie products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable JieJie product documentation. Warranties granted by JieJie shall be deemed void for products used for any purpose not expressly set forth in applicable JieJie documentation. JieJie shall not be liable for any claims or damages arising out of products used in applications not expressly intended by JieJie as set forth in applicable JieJie documentation. The sale and use of JieJie products is subject to JieJie terms and conditions of sale, unless otherwise agreed by JieJie.

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.