

/ Descriptions

DFN1006-2L
Silicon Diode in a DFN1006-2L Plastic Package.

/ Features

Fast switching diodes, HF Product.

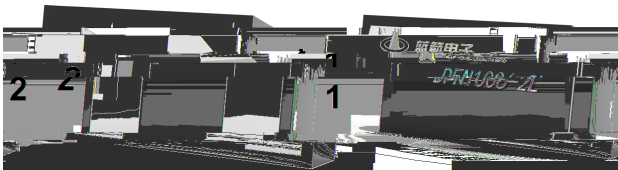
/ Applications

Small signal diode.

/ Equivalent Circuit



/ Pinning



PIN1:Anode

PIN2:Cathode

/ Marking

Marking	HA2
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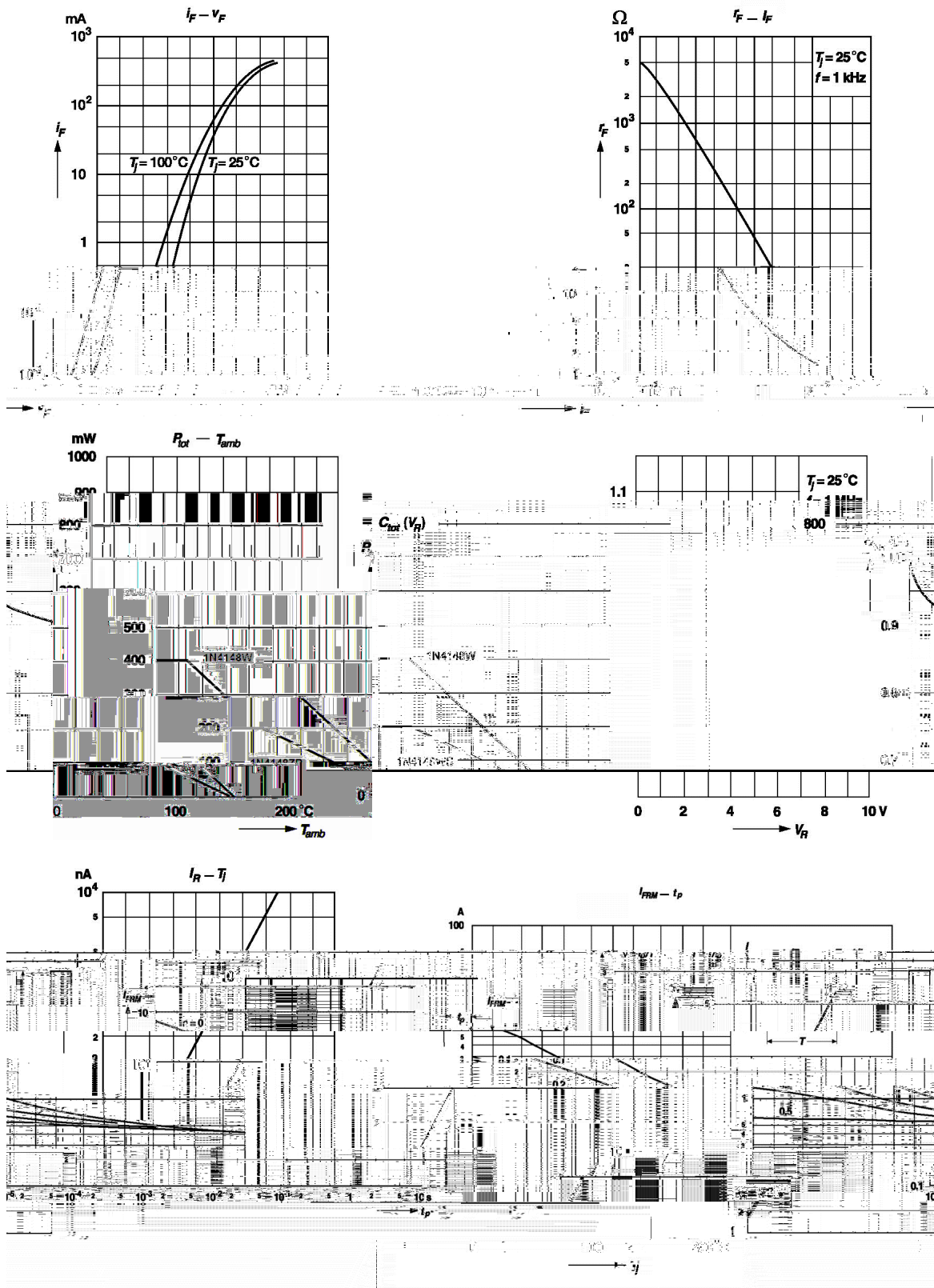
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	100	V
Rectified Current (Average)	I_O	215	mA
Forward Continuous Current	I_{FM}	300	mA
repetitive peak forward current	I_{FRM} ($t_p \leq 0.5 \mu s; \delta \leq 0.25$)	500	mA
Surge Forward Current	I_{FSM} ($t=1.0\mu s$)	4.0	A
	I_{FSM} ($t=1.0s$)	1.0	A
Power Dissipation	P_{tot}	250	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150	
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	/W

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=1.0mA$			715	mV
		$I_F=10mA$			855	mV
		$I_F=50mA$			1.0	V
		$I_F=150mA$			1.25	V
Instantaneous Reverse Current	I_R	$V_R=20V$			25	nA
		$V_R=75V$			5	μA
		$V_R=20V$ $T_j=150^\circ C$			50	μA
Capacitance	C_{tot}	$V_F=V_R=0V$			4	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA$ $V_R=6.0V$ $I_R=1mA$ $R_L=100\Omega$			4	ns
Voltage Rise when Switching On tested	V_{fr}	$t_p=0.1\mu s$ $f_p=5to100kHz$ Time<30ns			2.5	V
Total Capacitance	C_T	$V_R=0$ $f=1.0MHz$			5.0	pF

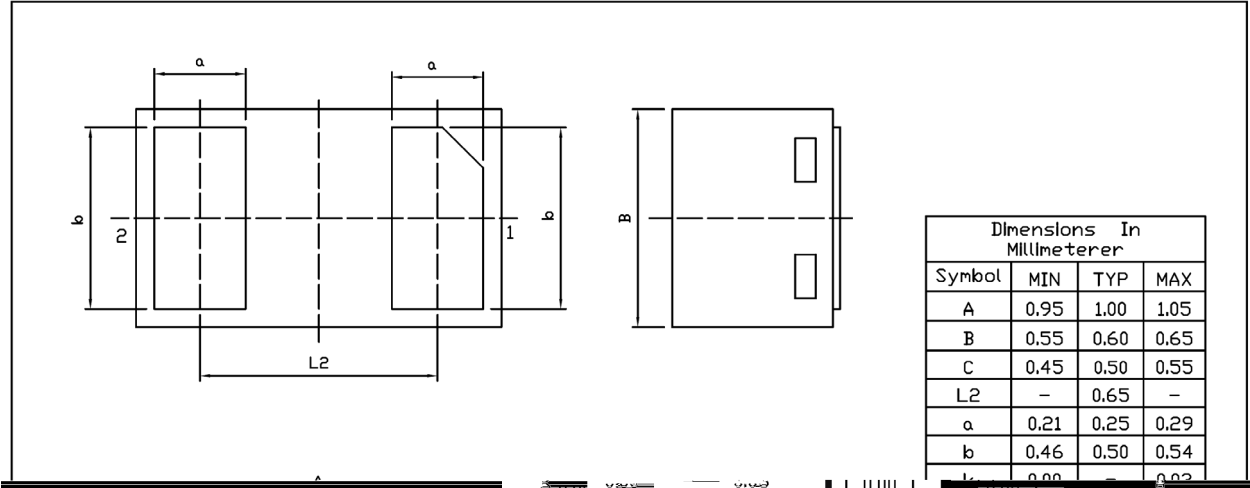
/ Electrical Characteristic Curve



/ Package Dimensions

DFN1006-2L

Unit:mm



/ Marking Instructions



H

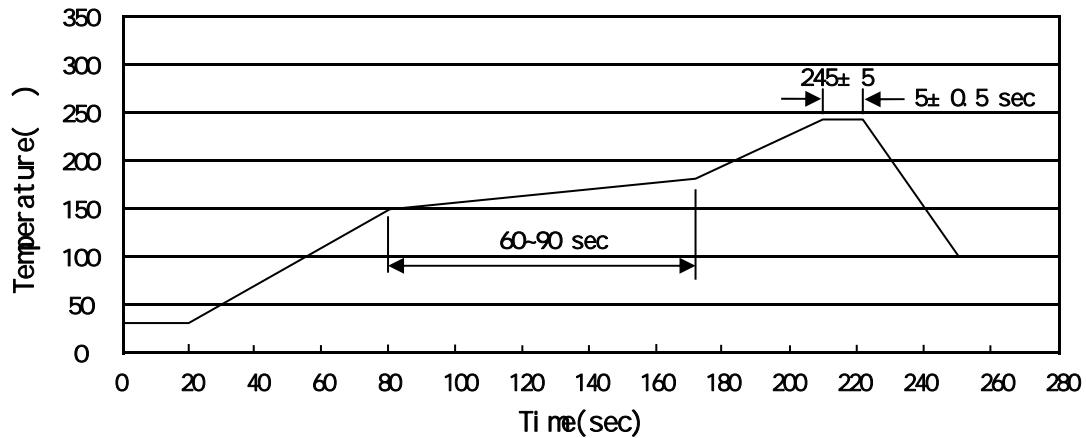
A2

Note:

H: Company Code

A2: Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-------|----------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5 | sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
DFN1006-2L	10,000	10	100,000	6	600,000	7" x8	180x120x180	390x385x205

/ Notices