

MBR140TZP

Rev.B Jul.-2023

DFN1006-2L

DFN1006-2L Plastic Package Schottky Barrier Rectifiers.

Ultra small package, Low positive pressure drop, can ignore the reverse recovery time, HF Product.

General purpose.



PIN1:Anode 1079999999909, REHFV, BT7C, 22B, xES.40, wxED.48h/0UPiC€ 0

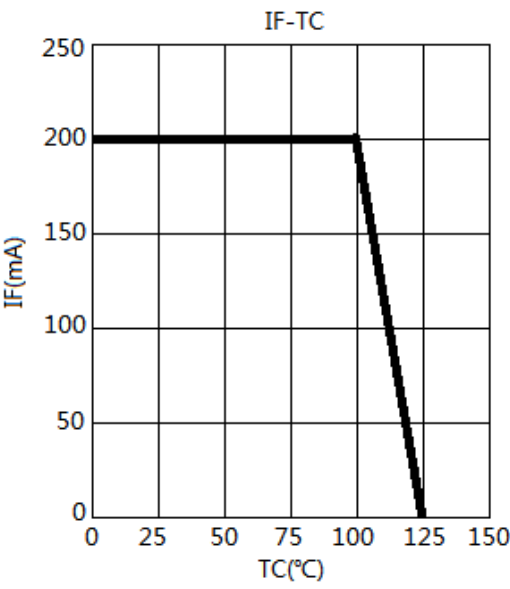
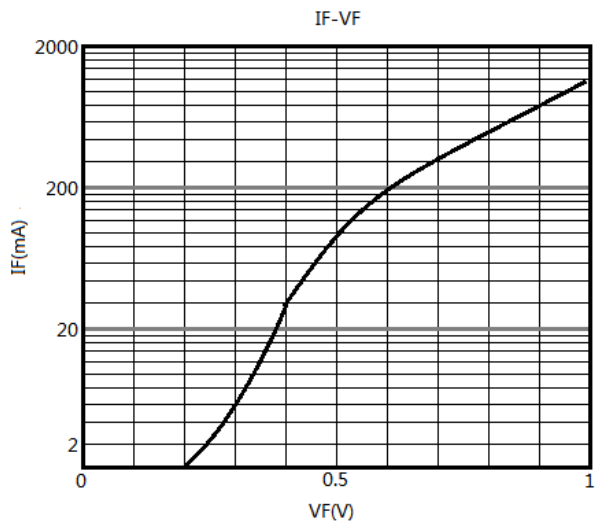
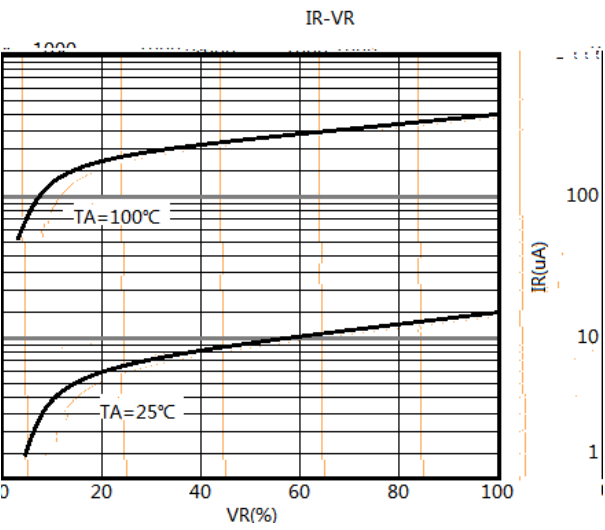
/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current $T_c=100^\circ\text{C}$	$I_F(AV)$	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	5	A
Operating and Storage Temperature Range	T_J, T_{stg}	-55~+125	

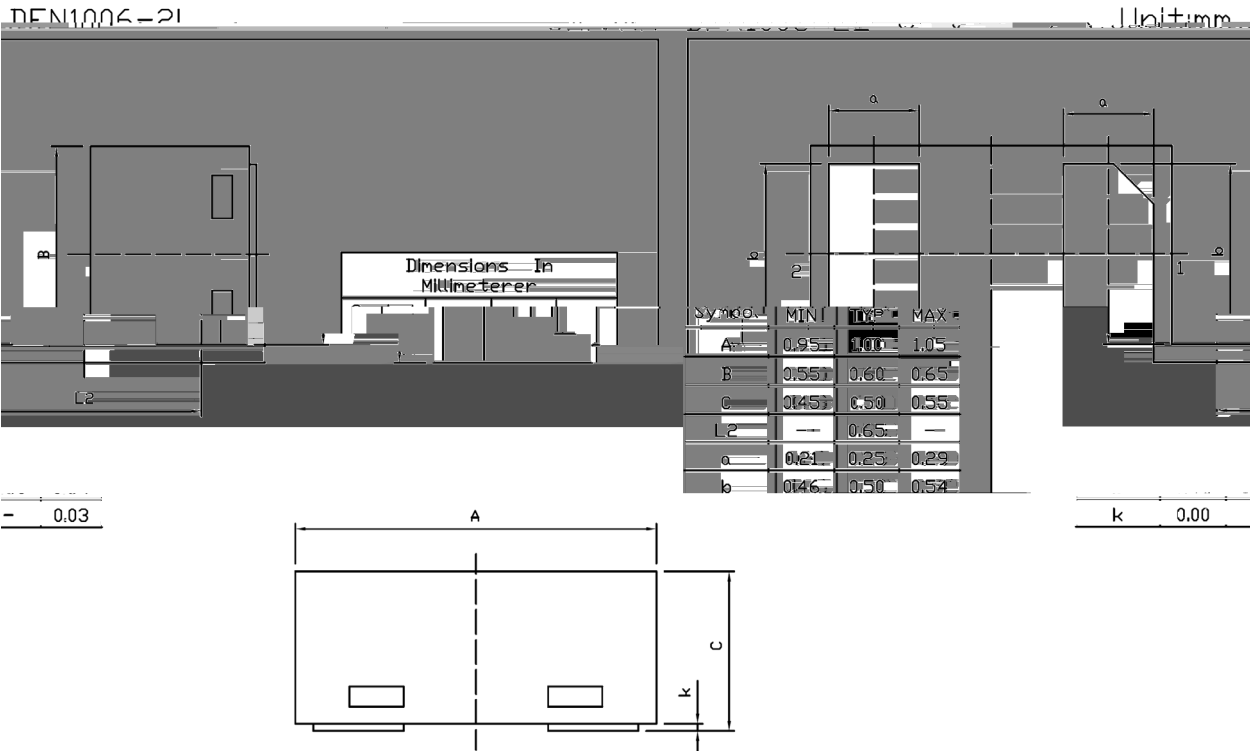
/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Maximum Instantaneous Forward Voltage	V_F	$I_F=1\text{A}$			0.61	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ\text{C}$			20	μA
		$T_a=100^\circ\text{C}$			500	μA

/ Electrical Characteristic Curve



/ Package Dimensions



Rev.01 202108

/ Marking Instructions



H

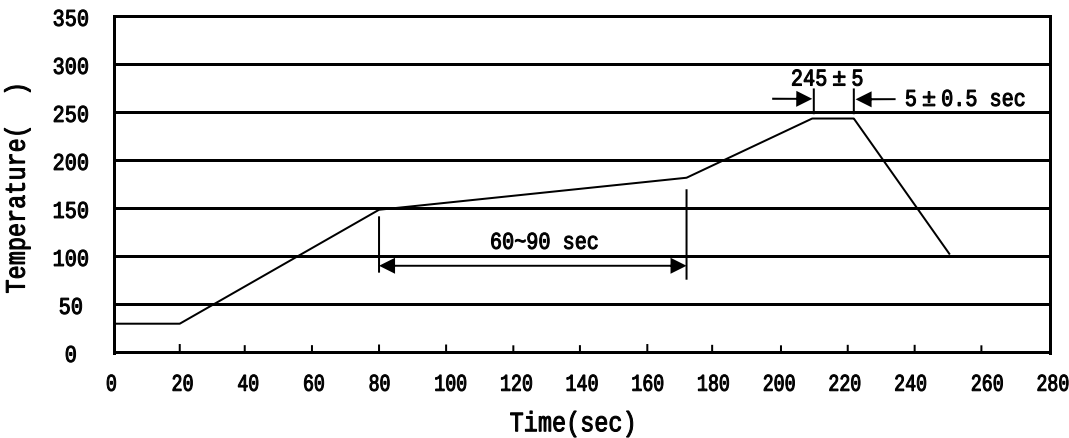
AA

Note

H: Company Code

AA Product Type

() / 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±0.5sec;

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" ×8	180×120×180	390×385×205

/ Notices