

MBR140TZP

Rev.B Jul.-2023

DFN1006-2L Plastic Package Schottky Barrier Rectifiers.

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

General purpose.



6plications 15 0 T () Tj.5 787 i BT /TT90505TT -44/TT8 ti 5105TT90505TTm h 5.1078T90505TT -446/TT8 ti

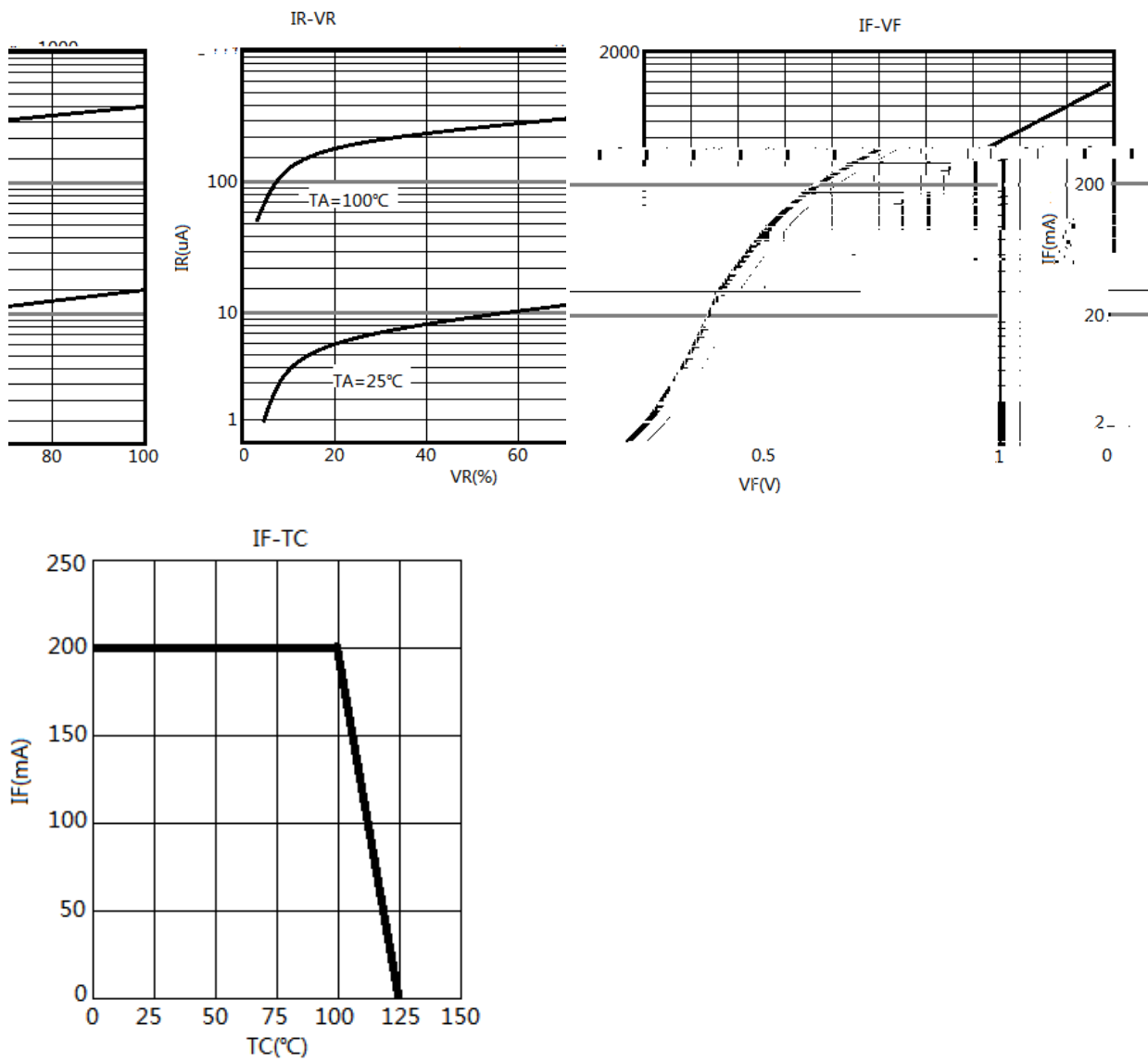
/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

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	

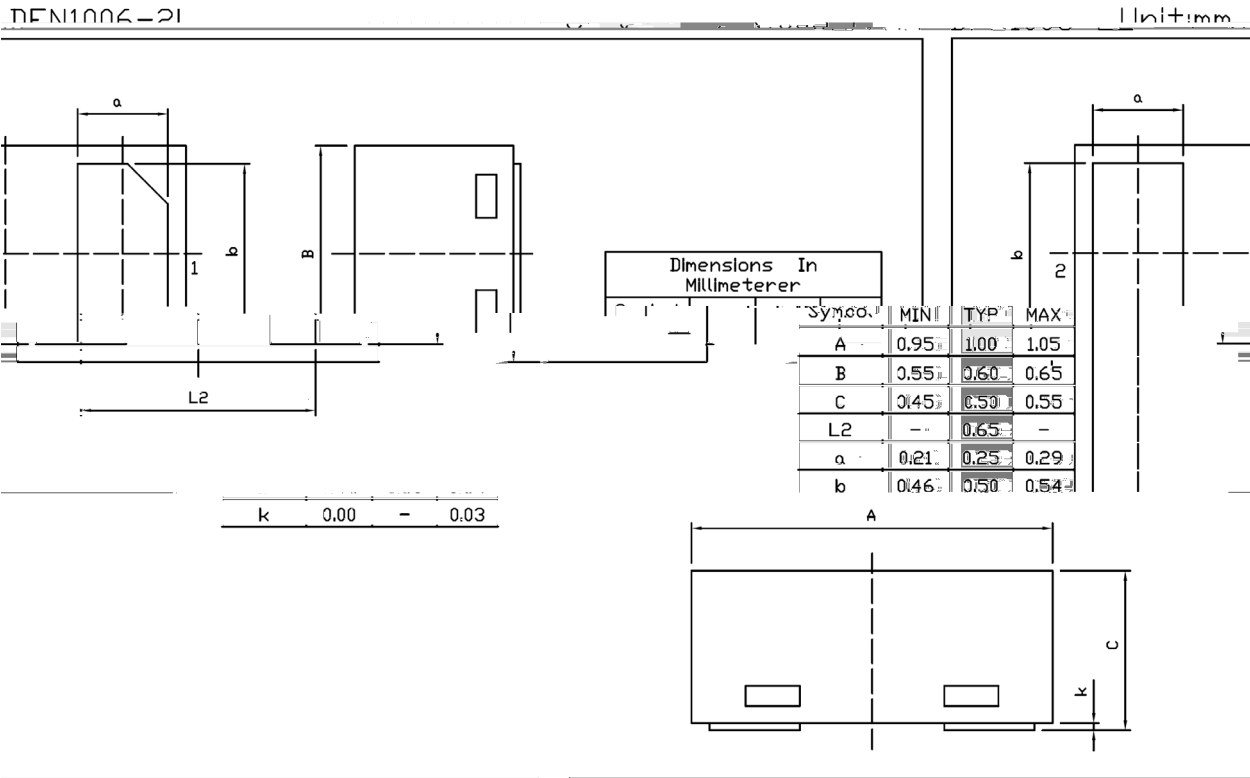
/ Electrical Characteristics($T_a=25^\circ\text{C}$)

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



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/ Marking Instructions

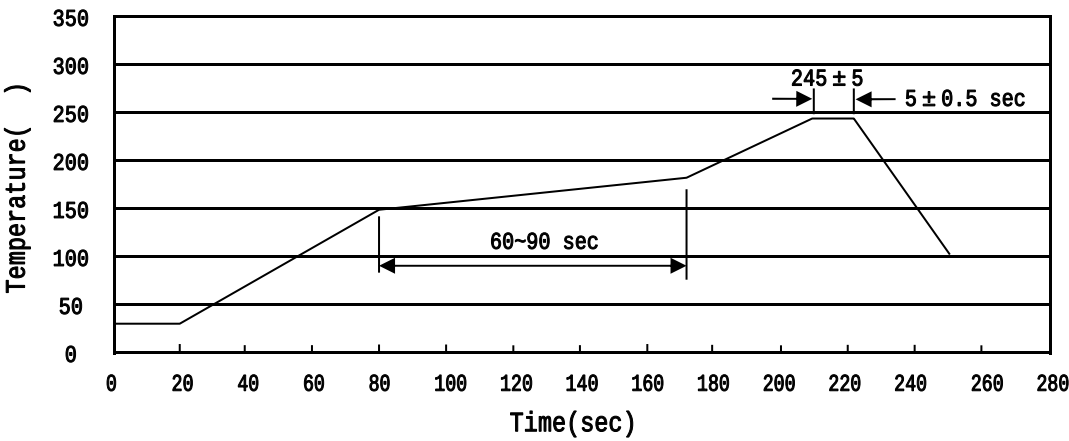


Note

H: Company Code

AA Product Type

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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)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
DFN1006-2L	10,000	10	100,000	6	600,000	7" ×8	180×120×180	390×385×205

/ Notices