

/ Descriptions

1.0A

UMB

1.0A Surface Mount Glass Passivated Bridge Rectifier,UMB thin package.

/ Features

100V~1000V

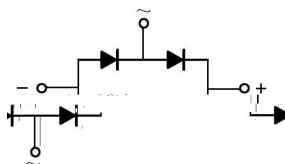
1.0A

Glass Passivated Chip Junction, High Surge Current Capability, Reverse Voltage :100 to 1000V, Forward Current:1.0A, Designed for Surface Mount Application. HF product.

/ Applications

General purpose.

/ Equivalent Circuit

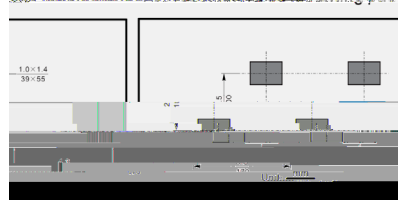


/ Pinning



PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

The recommended mounting pad size



/ Marking

See Marking Instructions.

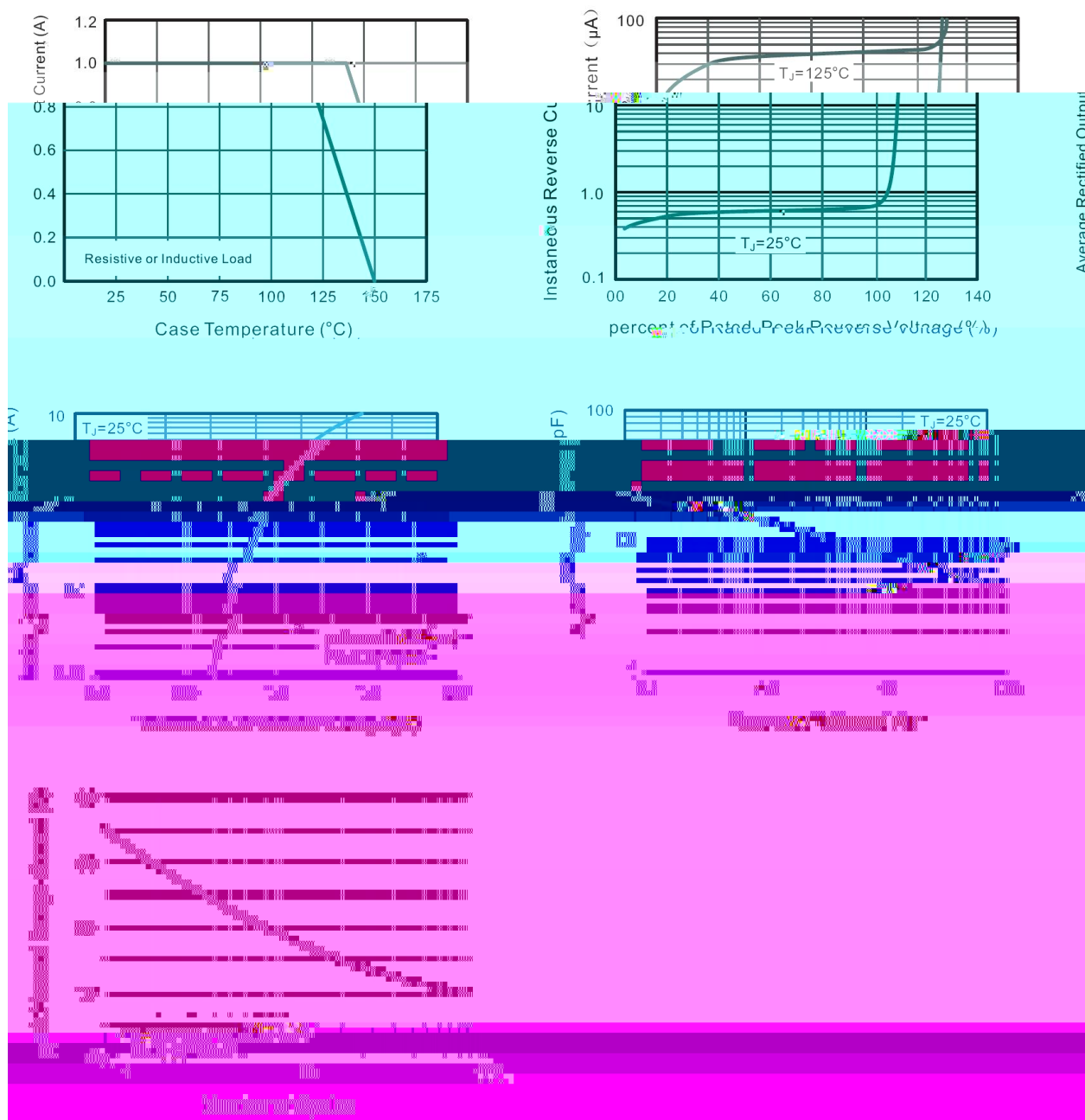
Parameter	Symbol	Rating						Unit
		UM1B-10	UM2B-10	UM4B-10	UM6B-10	UM8B-10	UM10B-10	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_a = 115$	I_o	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	35						A
Typical Junction Capacitance <small>Note1</small>	C_i	13						pF
Typical Thermal Resistance <small>Note2</small>	$R_{\theta JA}$ $R_{\theta JC}$	85 25						/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~150						

Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. P.C.B. mounted with 4x1.5 x1.5 (3.81x3.81cm) copper pad areas.

Parameter	Symbol	Test Conditions	Rating	Unit
Forward Voltage per element	V_F	$I_F=1.0A$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25$ $T_a=125$	5.0	μA

/ Electrical Characteristic Curve

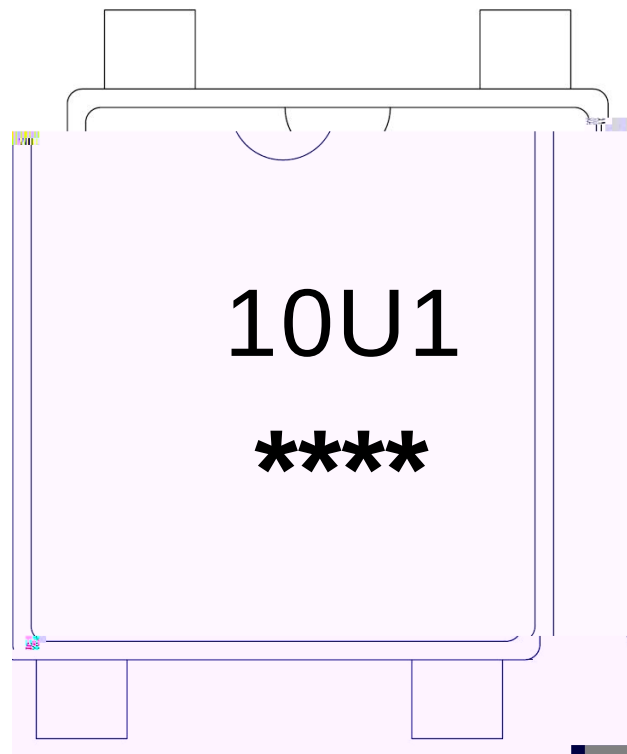


/ Marking Instructions

Marking

Type number	Marking code
UM1B-10	10U1
UM2B-10	10U2
UM4B-10	10U4
UM6B-10	10U6
UM8B-10	10U8
UM10B-10	10U10

/ Marking Instructions



10U1

1 *

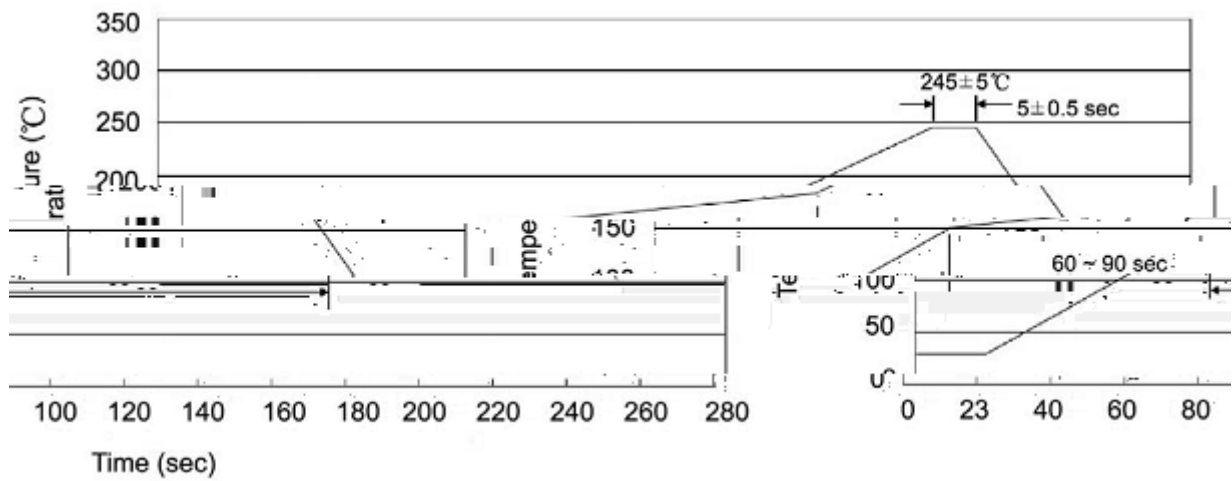
3 *

Note:

10U1 Product Type Code

***** Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot
No Code

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



Note:

- 1

25 150

60 90sec;
- 2

245±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

, Time:60~90sec.
- 2.Peak Temp.:245±5

, Duration:5±0.5sec.
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
UMB	5000	2	10,000	5	50,000	13 × 16	340 340 40	350 350 230

/ Notices