

ABS1-10~ABS10-10

Rev.B Jun.-2023



DATA SHEET

1A

ABS/LBF

1A Surface Mount Glass Passivated Bridge Rectifier ABS/LBF thin package.

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Glass Passivated Chip Junction, Reverse Voltage :100 to 1000V,Forward Current: 1A,High Surge Current Capability, Designed for Surface Mount Application,HF Product.

General purpose.

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

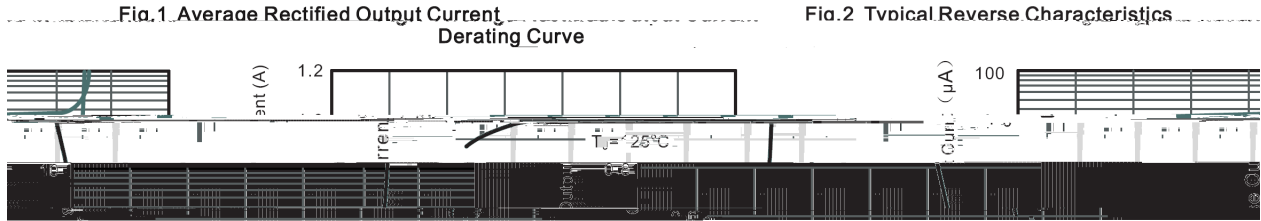
Parameter	Symbol	Rating						Unit
		ABS1-10	ABS2-10	ABS4-10	ABS6-10	ABS8-10	ABS10-10	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c=125\text{ }^\circ\text{C}$	I_o	1						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_{JA}	72						$^\circ\text{W}$
	R_{Jc}	20						$^\circ\text{W}$
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. Mounted on glass epoxy PC board with 4× 1.5"× 1.5" 3.81× 3.81 cm copper pad.

Parameter	Symbol	Test Conditions	Rating	Unit
Forward Voltage per element	V_F	$I_F=1A$	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	5	μA
		$T_a=100$	50	
		$T_a=125$	100	

/ Electrical Characteristic Curve



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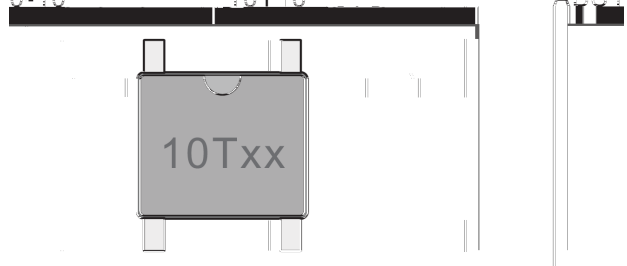
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/ Marking Instructions

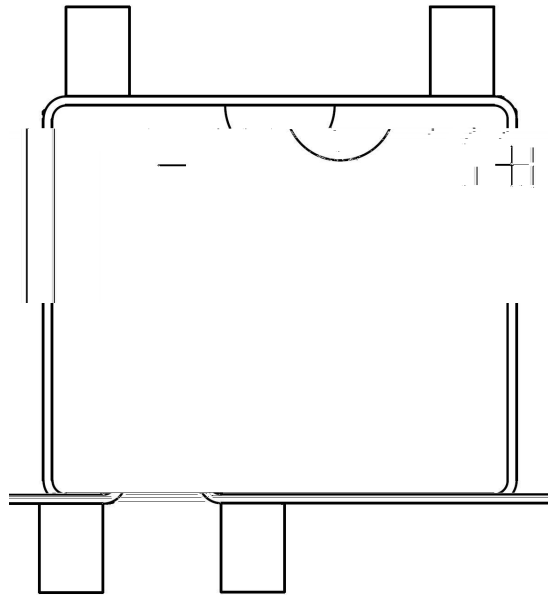
Marking

Type number	Marking code
ABS1-10	10T1
ABS2-10	10T2
ABS3-10	10T3
ABS4-10	10T4
ABS5-10	10T5
ABS6-10	10T6
ABS7-10	10T7
ABS8-10	10T8
ABS9-10	10T9
ABS10-10	10T10



The diagram shows a rectangular component with four pins. The marking '10Txx' is printed on the top surface. A barcode-like marking is shown on the right side of the component, corresponding to the marking codes in the table above.

/ Marking Instructions



10T1

1 *

3 *

Note:

10T1 Product Type Code

**** Ay@705055a5.7(@7050Louct.22)1.No.ct.22Cod

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