

/ Descriptions

50V~1000V 8.0A KBU

Silicon Bridge Rectifiers, Reverse Voltage:50to1000V,Forward Current:8.0A,KBU package.

/ Features

155A UL94-V0

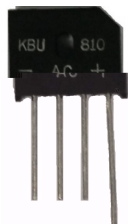
Surge overload rating -155 amperes peak,Plastic material has UL94-V0.

/ Applications

General purpose.

/ Equivalent Circuit

/ See Pinning.

/ Pinning**/ Marking**

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_C=100$	$I_{(AV)}$	8.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	I_{FSM}	155							A
Typical Junction Capacitance Per Element (Note1)	C_j	250							pF
Operating Temperature Range	T_j	-55~150							
Storage Temperature Range	T_{stg}	-55~150							

Note:

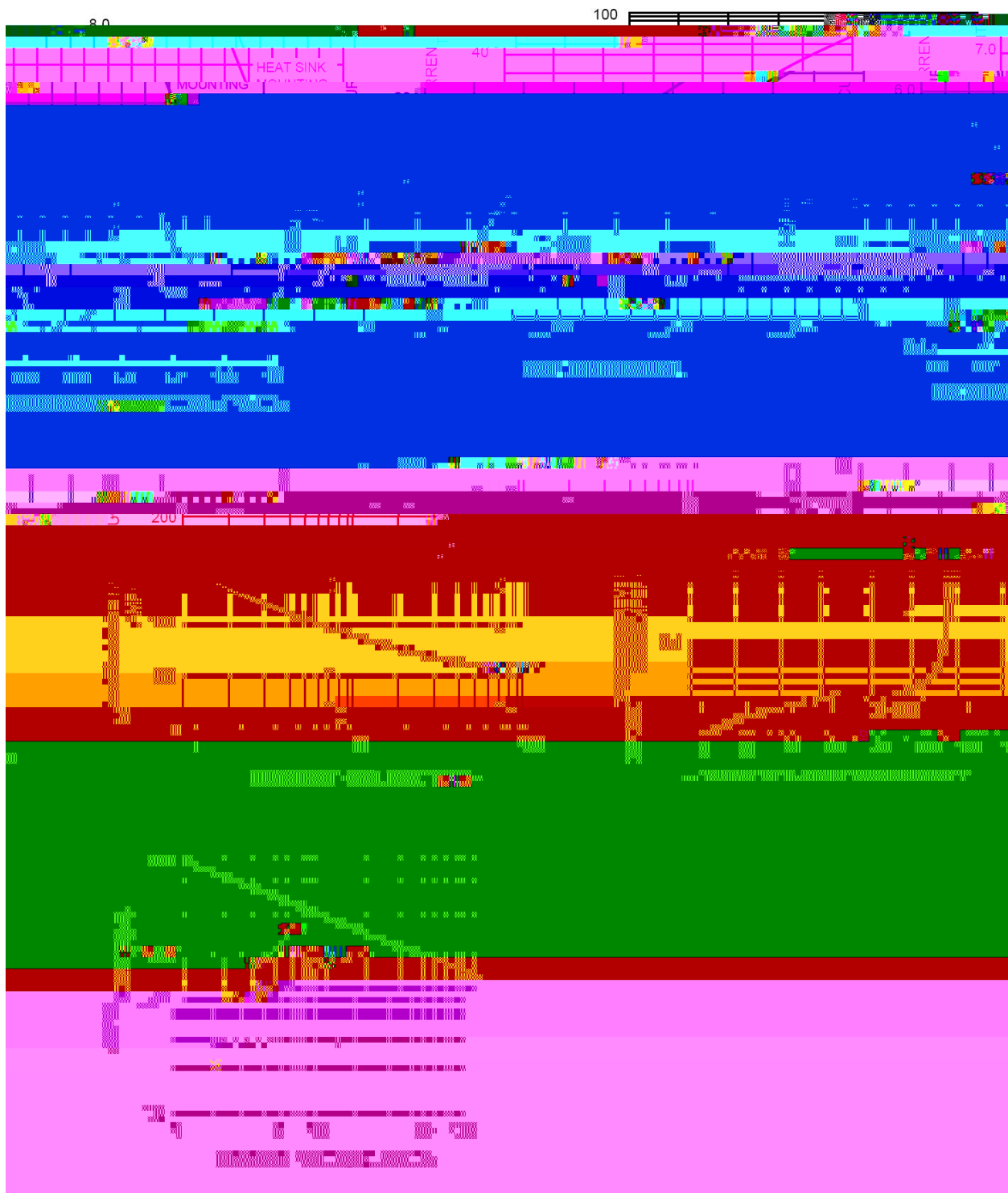
1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

/ Electrical Characteristics(Ta=25)

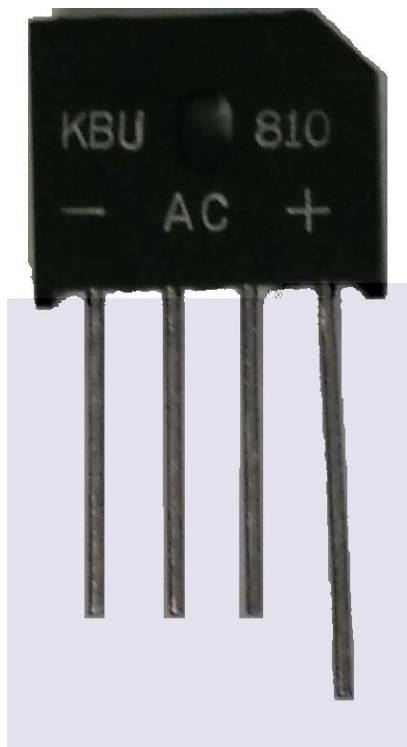
Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Instantaneous Forward Voltage Drop per Element	V_F	$I_F=4.0A$	1.0	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_J=25$	10	A
		$T_J=100$	300	A



/ Electrical Characteristic Curve



/ Marking Instructions



KBU810

- AC +

Note:

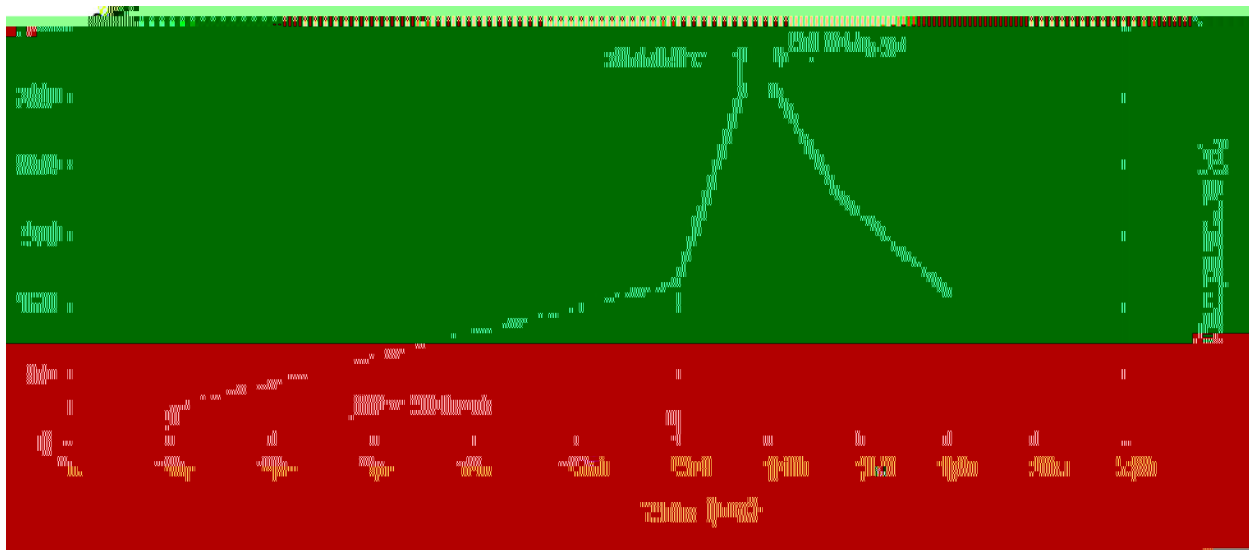
KBU810

Product Type

- AC +

Pin function

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. | |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BOXED

Package Type	Units			Dimension (unit mm ³)		
		Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box	Outer Box
KBU		400	6	2400	230 × 230 × 49	490 × 240 × 180

/ Notices