沛倫股份有限公司
Compact Technology Corp.

KBU35005 thru KBU3510

SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts
FORWARD CURRENT 35 Amperes

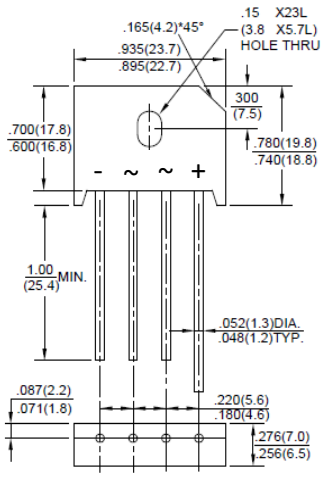
FEATURES

- Surge overload rating 400 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity: As marked on Body
- Mounting position: Any

KBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Characteristics	Symbol	KBU 35005	KBU 3501	KBU 3502	KBU 3504	KBU 3506	KBU 3508	KBU 3510	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse 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(with heatsink Note 1)	$I_{(AV)}$	35							A
Rectified Current @TC=100°C(without heatsink)		4.2							
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	400							A
Maximum Forward Voltage at 17.5A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J=25°C	I_R	10							μA
at Rated DC Blocking Voltage @T_J=125°C		500							
Junction and StorageTemperature Range	T_J, T_{STG}	-55 to +150							°C

NOTES: 1.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

Rating and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

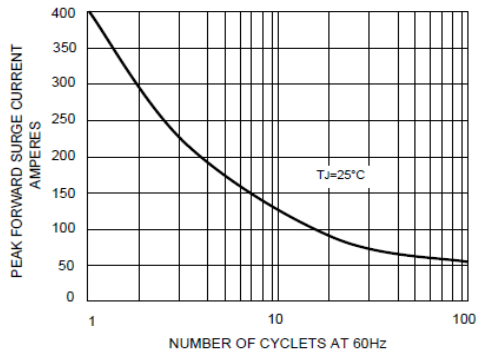


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

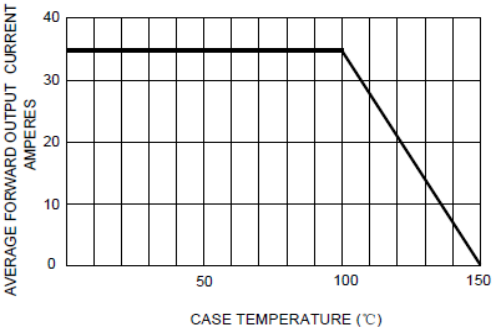


FIG.3– TYPICAL FORWARD CHARACTERISTICS

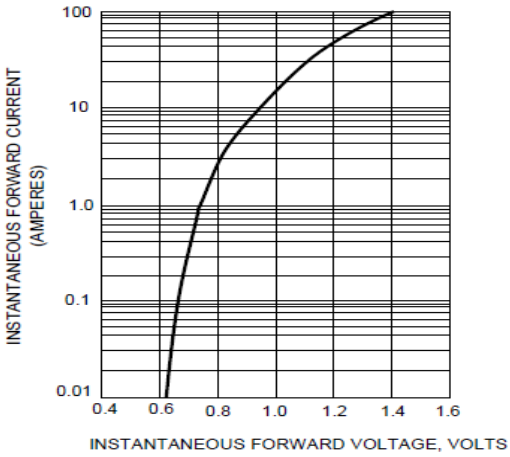


FIG.4– TYPICAL REVERSE CHARACTERISTICS