

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

www.DataSheet4U.com Type Number		KBU 25005	KBU 2501	KBU 2502	KBU 2504	KBU 2506	KBU 2508	KBU 2510	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc = 100℃	l(AV)	25.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	400							А
Maximum Instantaneous Forward Voltage @12.5A	V _F	1.1							V
Maximum DC Reverse Current @ TA=25 $^\circ$ rated DC blocking voltage per leg TA = 125 $^\circ$	I _R	10 500							μ Α
Typical Thermal Resistance (Note)	RθJC	0.8							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	Tstg	-55 to +125							°C

NOTE: Device Mounted on $100 \times 100 \times 1.6$ mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES KBU25005 THRU KBU2510

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELELMENT FIG.2-MAXIMUM FORWARD CURRENT DERATING 400 CURVE € AVERAGE FORWARD CURRENT.(A) 30 350 PEAK FORWARD SURGE CURRENT. 300 20 10 0 50 100 150 0 AMBIENT TEMPERATURE.(°C) 10 100 1 NUMBER OF CYCLES AT 60Hz FIG.3-TYPICAL INSTANTANEOUS FORWARD FIG.4-TYPICAL REVERSE CHARACTERISTICS CHARACTERISTICS PER BRIDGE ELEMENT PER BRIDGE ELEMENT 100 10 NSTANTANEOYS FORWARD CURRENT.(A) INSTANTANEOYS REVERSE CURRENT.(UA) 10 Data 1 1.0 0.1 0.1 TJ=25°C 0.01 0.01 20 40 60 80 100 120 140 0 0.2 0.4 0.8 1.0 1.2 1.4 0.6 PERCENT OF RATED PEAK REVERSE VOLTAGE.(%) INSTANTANEOUS FORWARD VOLTAGE.(V)