

KI SEMICONDUCTOR

KBU1001 THRU KBU1007

Features

- Low Leakage
- Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads

10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Maximum Ratings

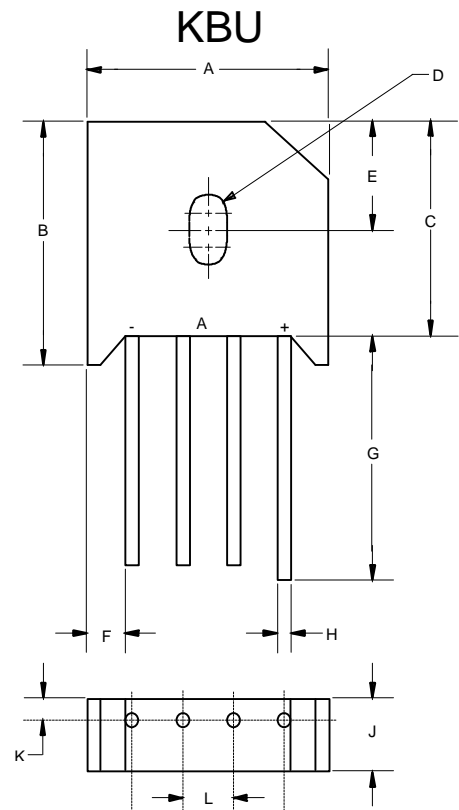
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBU1001	KBU10A	50V	35V	50V
KBU1002	KBU10B	100V	70V	100V
KBU1003	KBU10D	200V	140V	200V
KBU1004	KBU10G	400V	280V	400V
KBU1005	KBU10J	600V	420V	600V
KBU1006	KBU10K	800V	560V	800V
KBU1007	KBU10M	1000V	700V	1000v

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_J = 65^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 5.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μ A 100mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

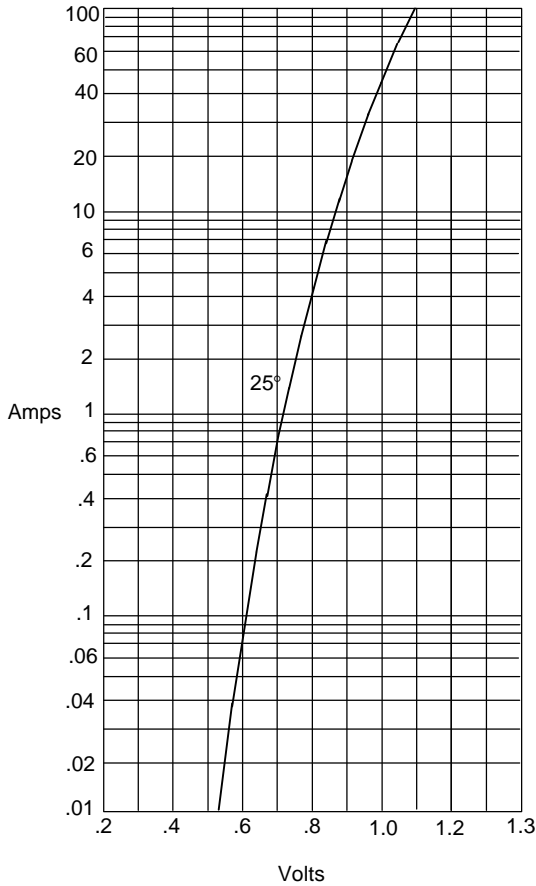
*Pulse test: Pulse width 300 μ sec, Duty cycle 1%



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.925	---	23.50	
B	---	.763	---	19.40	
C	---	.680	---	17.20	NOM
D	.15 \varnothing x .23L		3.8 \varnothing x 5.57L		HOLE
E	---	.300	---	7.50	NOM
F	---	.157	---	4.00	NOM
G	1.00	---	25.40	---	
H	---	.050	---	1.30	TYP
J	---	.280	---	7.00	
K	---	.075	---	1.90	NOM
L	---	.200	---	5.10	3PL

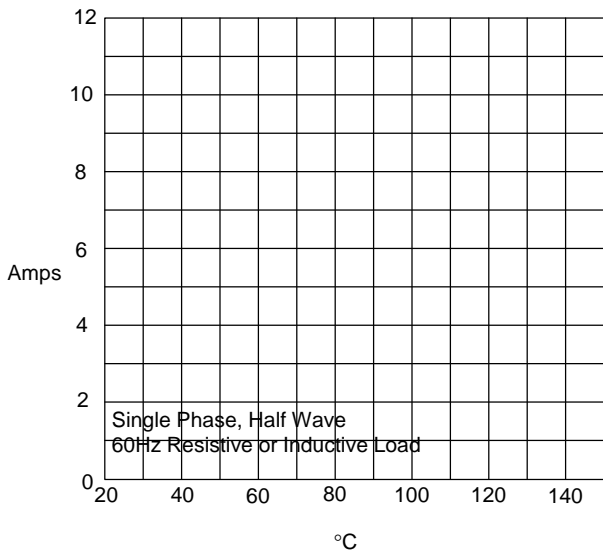
KBU1001 thru KBU1007

Figure 1
Typical Forward Characteristics



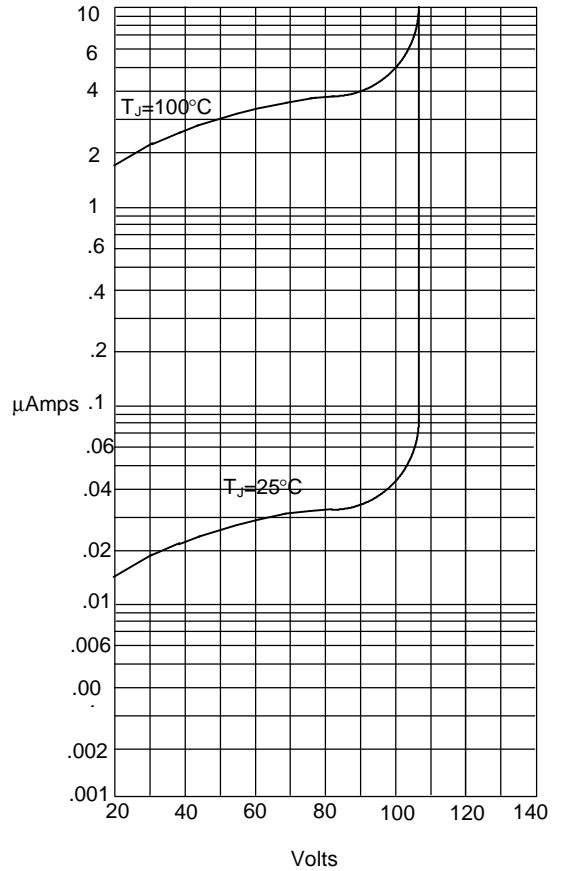
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 3
Forward Derating Curve



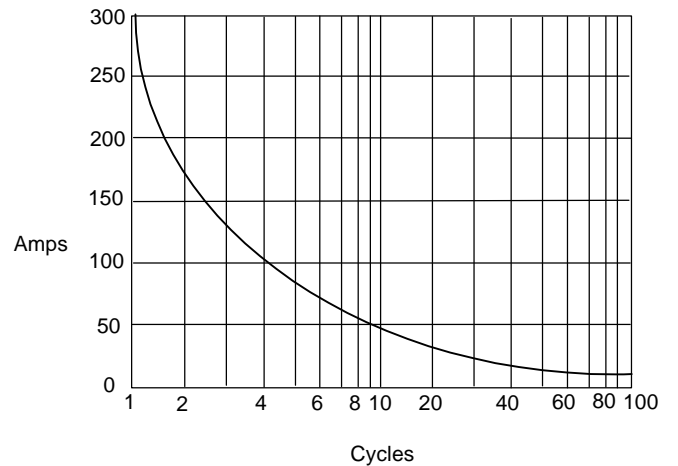
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 2
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles