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RS1001 THRU RS1007

10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

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

Maximum Ratings

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

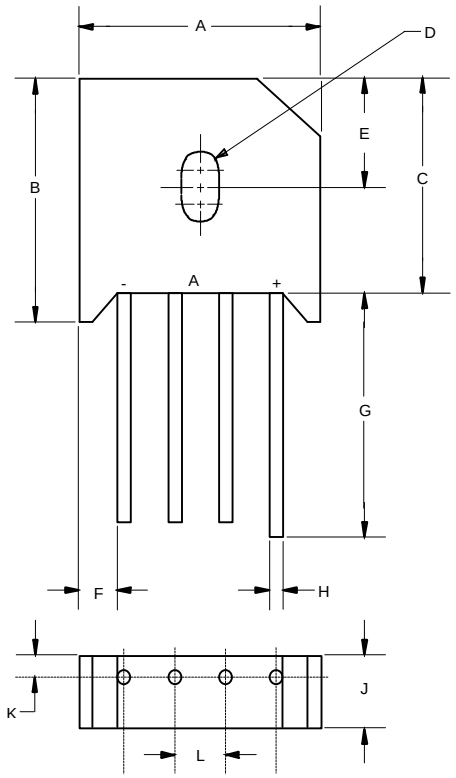
Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS1001	KBU10A	50V	35V	50V
RS1002	KBU10B	100V	70V	100V
RS1003	KBU10D	200V	140V	200V
RS1004	KBU10G	400V	280V	400V
RS1005	KBU10J	600V	420V	600V
RS1006	KBU10K	800V	560V	800V
RS1007	KBU10M	1000V	700V	1000v

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	T_J = 65°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°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 100mA	T_J = 25°C T_J = 100°C

*Pulse test: Pulse width 300 μsec, Duty cycle 1%

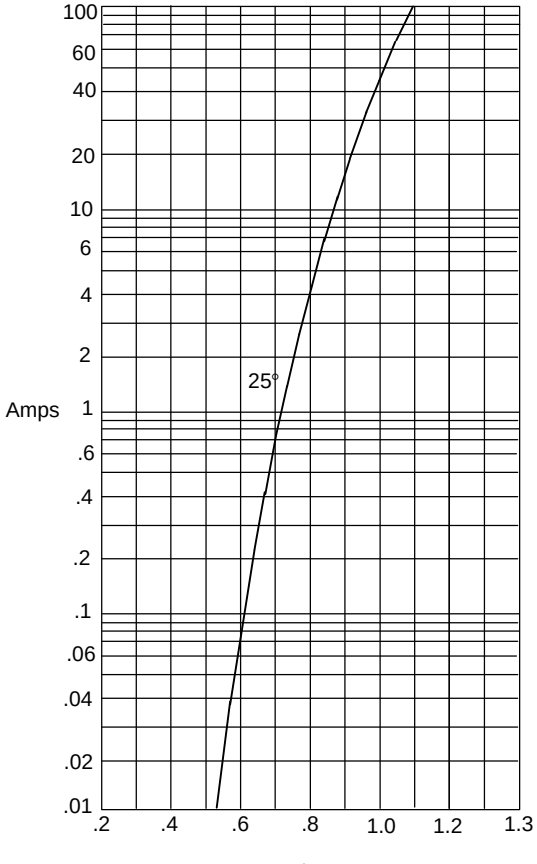
KBU



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	---	.925	---	23.50	
B	---	.763	---	19.40	
C	---	.680	---	17.20	NOM
D	.15Ø x	.23L	3.8Ø 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

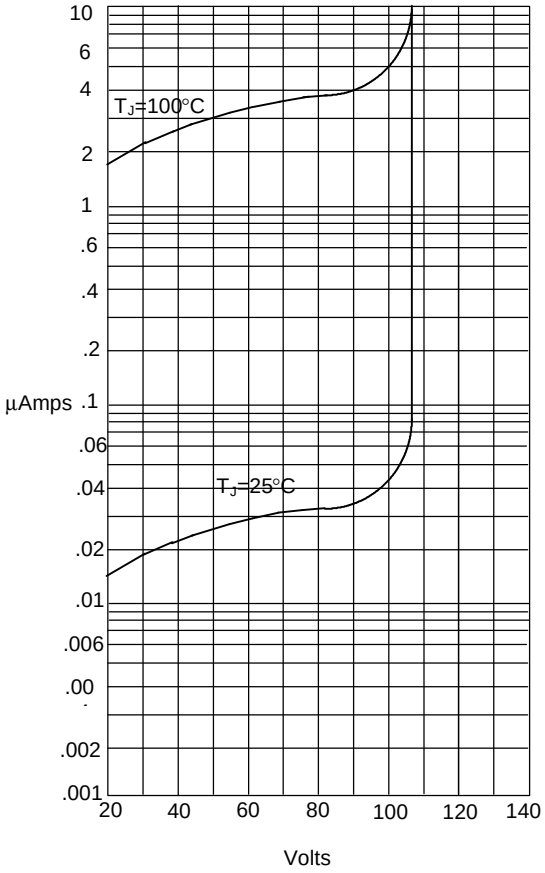
RS1001 thru RS1007

Figure 1
Typical Forward Characteristics



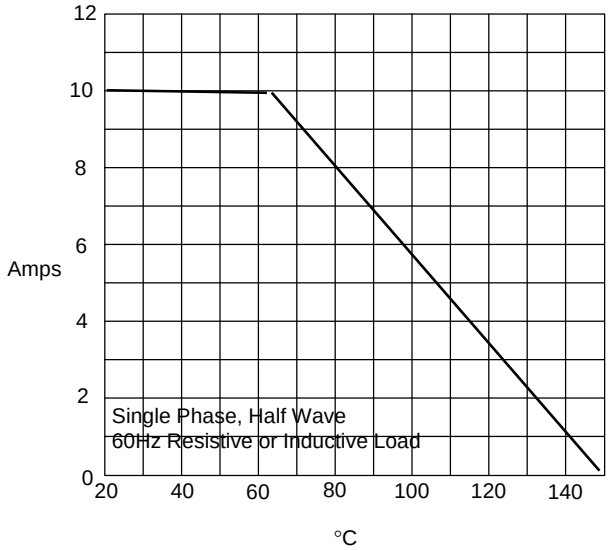
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



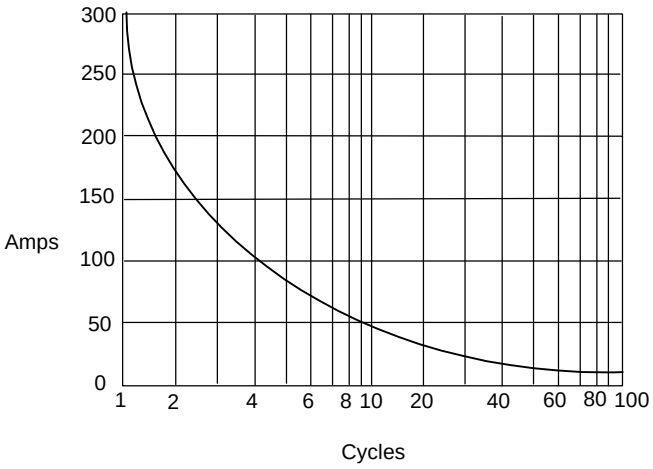
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Peak Forward Surge Current



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