KBU10005 THRU KBU1010

Reverse Voltage - 50 to 1000 Volts Forward Current - 10.0 Amperes

Features

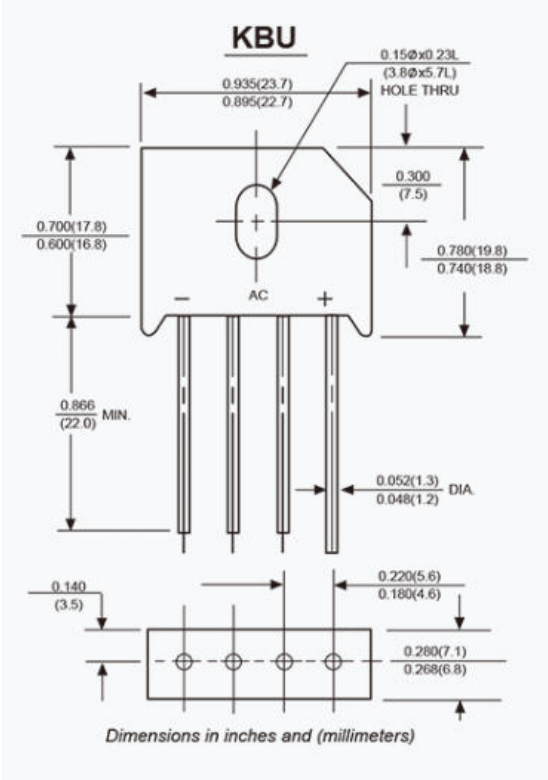
Reliable low cost construction utilizing molded plastic technique

Ideal for printed circuit board

Low forward voltage drop

Low reverse leakage current

High surge current capability



Mechanical Data

Case: Molded plastic, KBU

Epoxy: UL 94V-0 rate flame retardant

Terminals: Pure tin plated, lead free, Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: As Marking

Weight: 8.0gram

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	**Volts**
Maximum Average Forward Rectified Current at T_A=65℃	$I_{(AV)}$	10.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300							**Amp**
Maximum Instantaneous Forward Voltage@ 5.0A @ 10.0A	V_F	1.0 1.1							**Volts**
Maximum Reverse Current at T_A=25℃ at Rated DC Blocking Voltage T_A=125℃	I_R	10.0 500							**uAmp**
Typical Junction Capacitance per leg (Note 1)	C_J	400							**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	25 2.2							**℃/W**
Operating Temperature Range	T_J	-55 to +150							**℃**
Storage Temperature Range	Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.

FIG 1 Maximum Derating Curve for Output Current

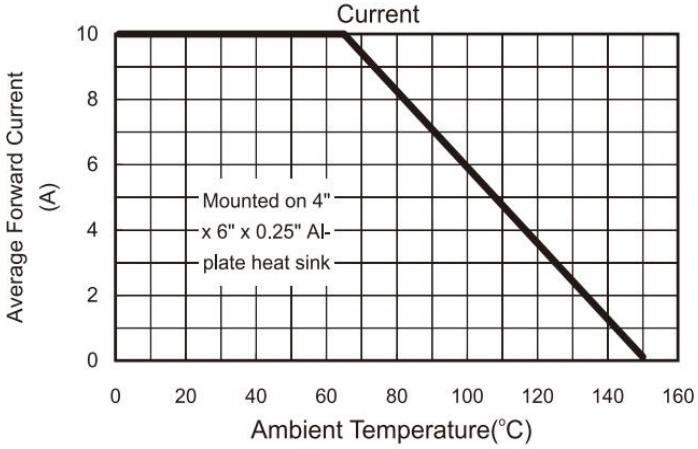


FIG 2 Maximum Forward Surge Current per Leg

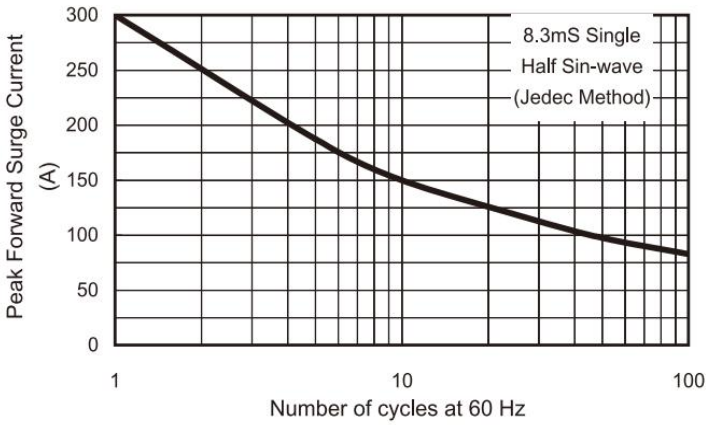
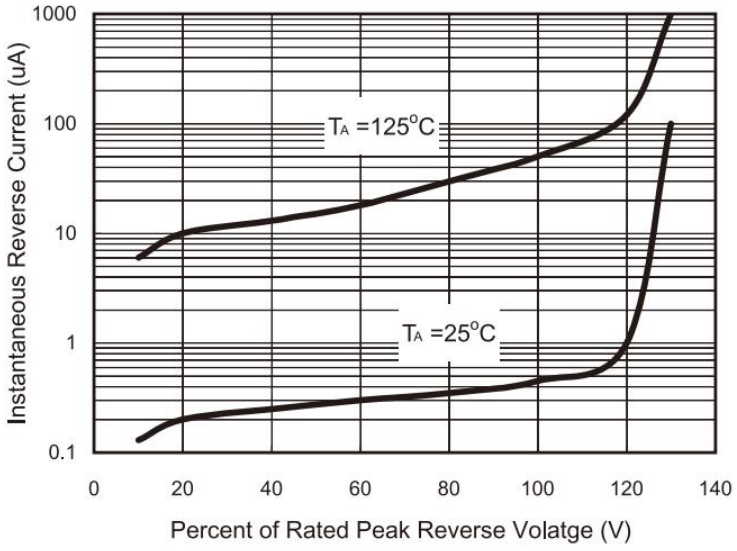


FIG 3 Typical Reverse Leakage Characteristics per Leg



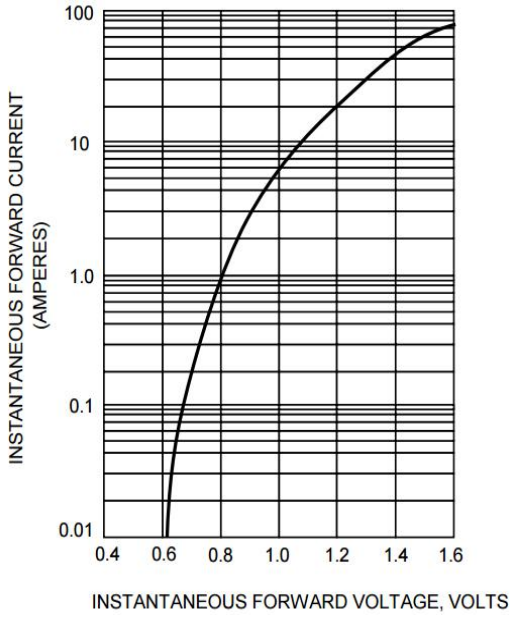
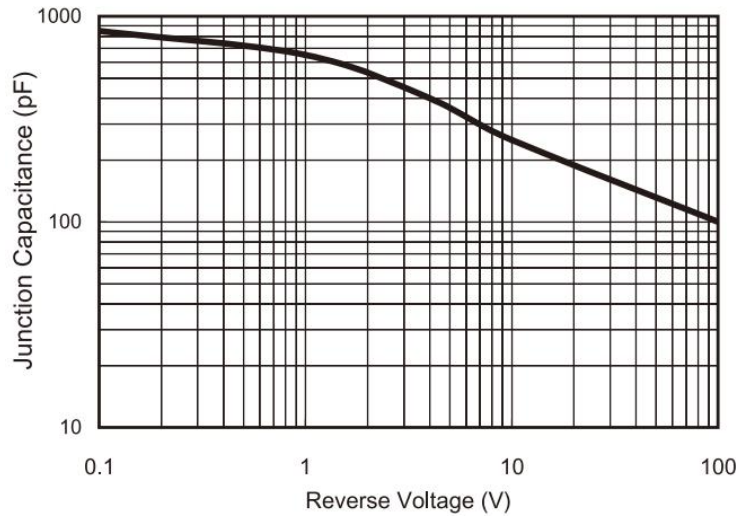


FIG 5 Typical Junction Capacitance



单击下面可查看定价，库存，交付和生命周期等信息

>>ZG(中鑫半导体)