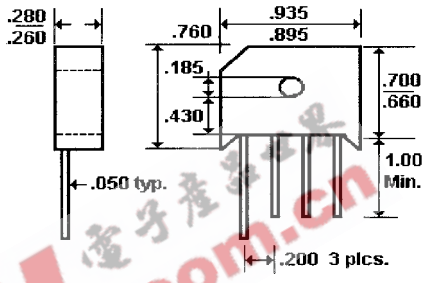
Data Sheet

6.0 Amp
SINGLE PHASE SILICON BRIDGE

KBU600 . . . 610 Series

Description

Mechanical Dimensions



Mechanical Data: Weight - 0.3 Ounces. Mounting Torque - 5.1 lbs. Mounting Position - Any.

Features

- **COMPACT SIZE**
- **LOW LEAKAGE CURRENT**
- **250 AMP SURGE OVERLOAD RATING**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.	KBU600 . . . 610 Series							Units
Maximum Ratings	**KBU600**	**KBU601**	**KBU602**	**KBU604**	**KBU606**	**KBU608**	**KBU610**	
Peak Repetitive Reverse Voltage...V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...$V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...$I_{F(av)}$ T_A = 25°C	..... 6.0							Amps
Non-Repetitive Peak Forward Surge Current...I_{FSM} 8.3 mS Single ½ Sine Wave Imposed on Rated Load	..... 250							Amps
Forward Voltage...V_F Bridge Element @ 6.0 Amps	..... 1.0							Volts
DC Reverse Current...I_R @ Rated DC Blocking Voltage T_A = 25°C	..... 10							µAmps
T_A =100°C	..... 1.0							mAmps
Typical Thermal Resistance...$R_{\theta JC}$	..... 10							°C/W
Operating Temperature Range...T_J	..... -55 to 125							°C
Storage Temperature Range...T_{STRG}	..... -55 to 150							°C

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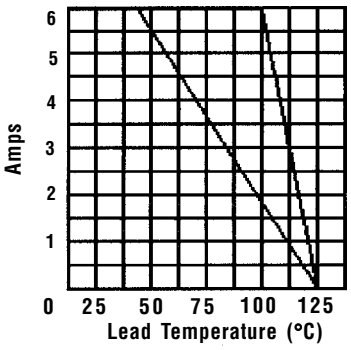
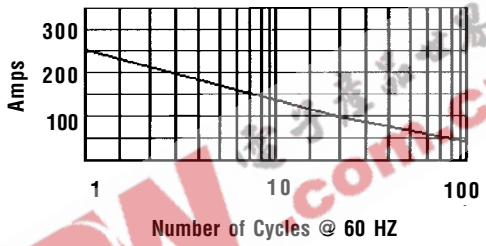
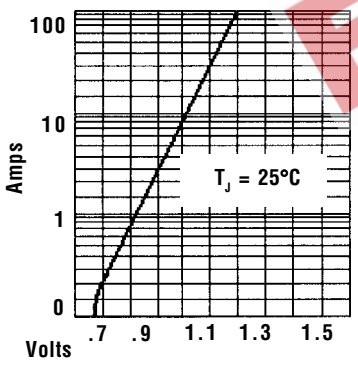
Forward Current Derating Curve



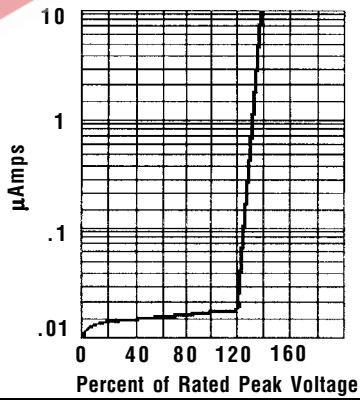
Non-Repetitive Peak Forward Surge Current



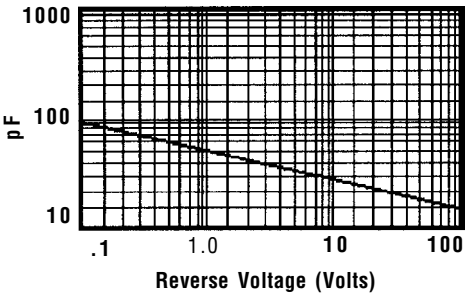
Typical Instantaneous Forward Characteristics



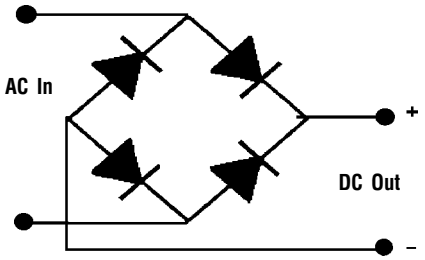
Typical Reverse Characteristics



Typical Junction Capacitance



Electrical Description



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.