Silicon Bridge Rectifiers

COMCHIP
SMD DIODE SPECIALIST

KBU600-G thru 610-G (RoHS Device)

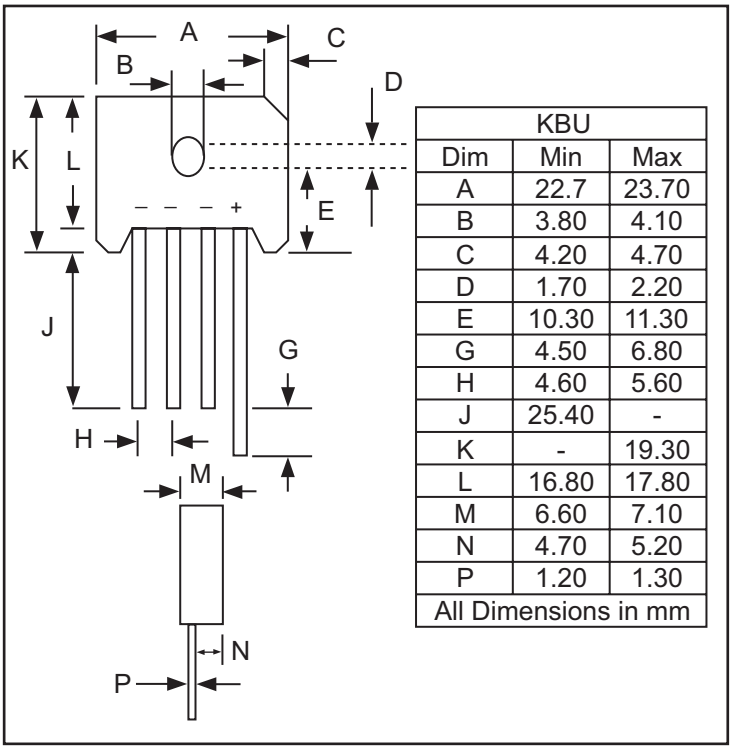
Reverse Voltage: 50 ~ 1000 Volts
Forward Current: 6.0 Amp

Features:

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data:

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL STD-202, Method 208
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBU		
Dim	Min	Max
A	22.7	23.70
B	3.80	4.10
C	4.20	4.70
D	1.70	2.20
E	10.30	11.30
G	4.50	6.80
H	4.60	5.60
J	25.40	-
K	-	19.30
L	16.80	17.80
M	6.60	7.10
N	4.70	5.20
P	1.20	1.30
All Dimensions in mm		

CHARACTERISTICS	Symbol	KBU 600-G	KBU 601-G	KBU 602-G	KBU 604-G	KBU 606-G	KBU 608-G	KBU 610-G	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T_A = 100ºC	I_O	6.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half Sine-Wave Superimposed on rated load (JEDEC Method)	I_{FSM}	250							A
Forward Voltage (per element) @ I_F=3.0A	V_{FM}	1.0							V
Peak Reverse Current @T_C=25ºC At Rated DC Blocking Voltage @T_C=100ºC	I_R	10 1.0							uA mA
Rating for Fusing (t<8.3ms) (Note1)	I^2t	166							A^2S
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	4.2							K/W
Operating and Storage Temperature Range	T_j T_{STG}	-65 to +150							ºC

Note: 1. Non-repetitive for t>1ms and <8.3ms.
2. Thermal resistance junction to ambient mounted on PC board with 13.0x13.0x0.03mm thick land areas.

"-G" suffix designated RoHS compliant version

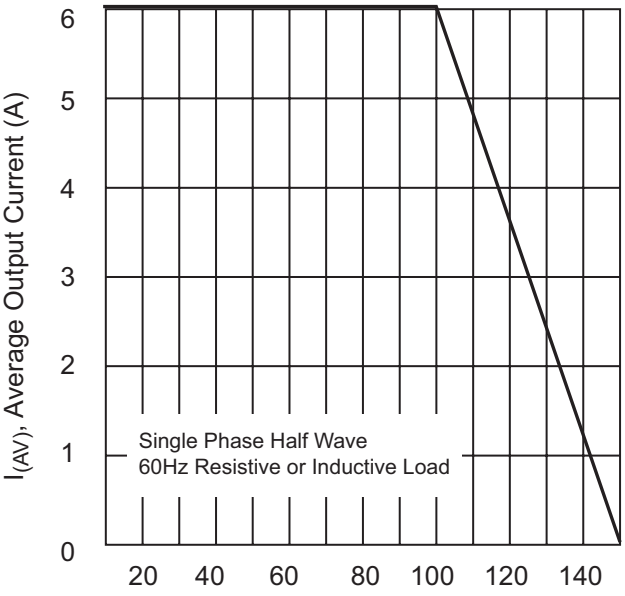


Fig. 1 Forawrd Current Derating Curve

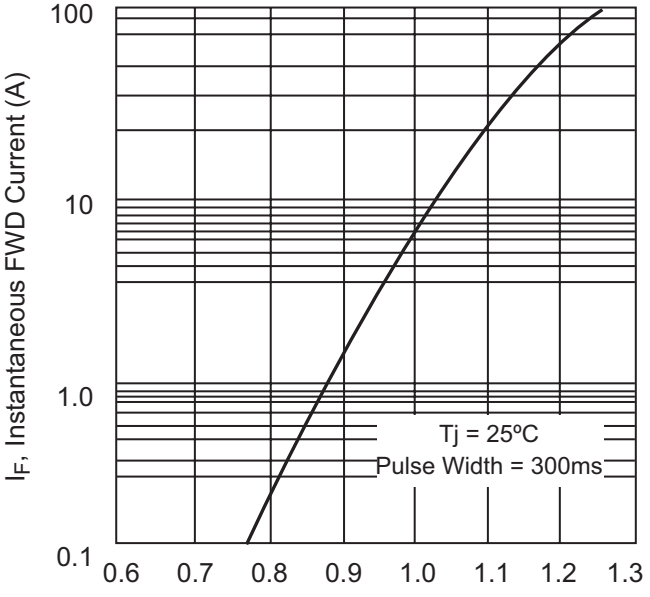


Fig.2 Typical Forward Characteristics, per element

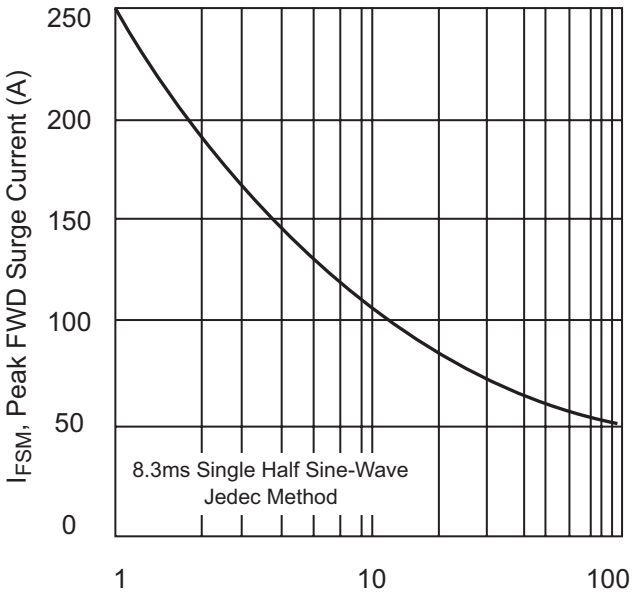


Fig.3 MAx Non-Repetitive FWD Surge Current

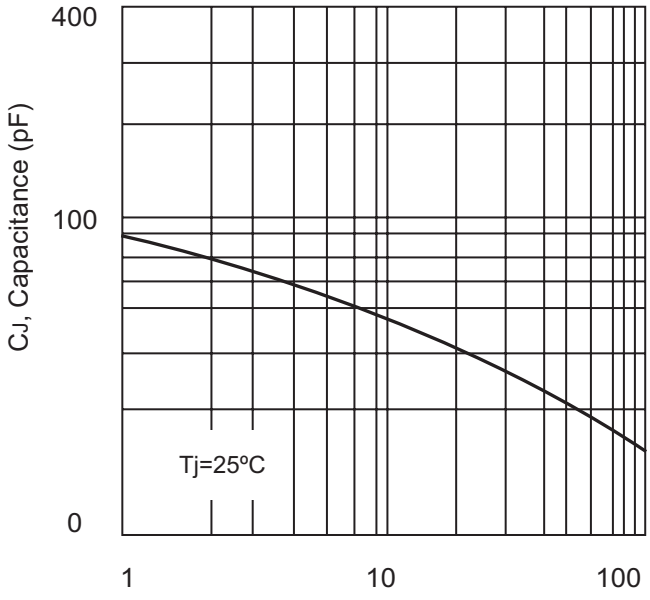


Fig 4. Typical Junction Capacitance Per Element

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