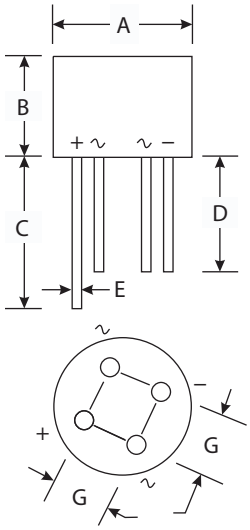
DEC

KB201 THRU KB207

CURRENT 2.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

· Glass Passivated Die Construction
· Diffused Junction
· Low Forward Voltage Drop, High Current Capability
· Surge Overload Rating to 60A Peak
· Ideal for Printed Circuit Boards
· Case to Terminal Isolation Voltage 1500V
· Plastic Material - UL Flammability Classification 94V-0



WOB		
Dim	Min	Max
A	8.84	9.86
B	4.00	4.60
C	27.90	—
D	25.40	—
E	0.71	0.81
G	4.60	5.60
All Dimensions in mm		

Mechanical Data

· Case : WOB Molded Plastic
· Terminals : Plated Leads Solderable per MIL-STD-202, Method 208
· Polarity : As Marked on Case
· Weight : 1.3 grams (approx.)
· Mounting Position : Any
· Marking : Type Number

Maximum Ratings And Electrical Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	KB201	KB202	KB203	KB204	KB205	KB206	KB207	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RMM} V_{RWM} V_R	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ T_A=25℃	Io	2.0							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load per element (JEDEC method)	I_{FSM}	60							Amps
Forward Voltage (per element) @ I_F=2.0 A	V_{FM}	1.1							Volts
Peak Reverse Current at Rated DC Blocking Voltage @ T_A=25℃	I_{RM}	5.0							μA
Peak Reverse Current at Rated DC Blocking Voltage @ T_A=125℃	I_{RM}	500							μA
Typical Junction Capacitance (Note 2)	C_j	16							pF
Typical Thermal Resistance Junction to Case	$R\theta_{JC}$	40							℃/W
Operating and Storage Temperature Range	T_j T_{STG}	-65 to +150							℃

Notes:
(1) Thermal resistance from junction to case mounted in PC board with 13 x 13mm (0.03mm thick) land areas.
(2) Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES KB201 THRU KB207

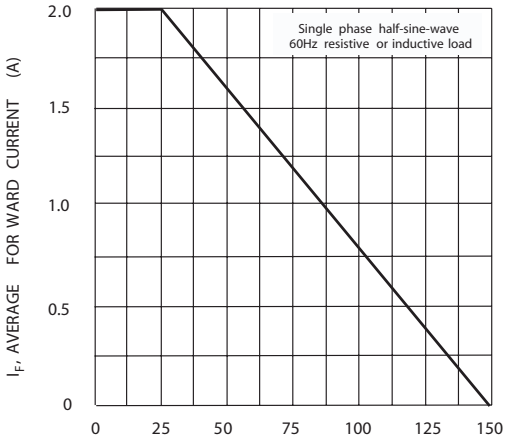


Fig. 1 Forward Current Derating Curve

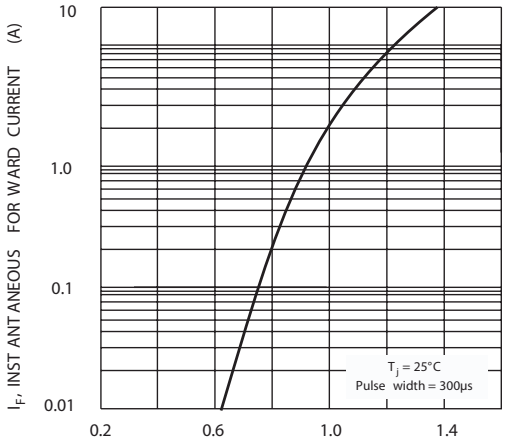


Fig. 2 Typical Forward Characteristics

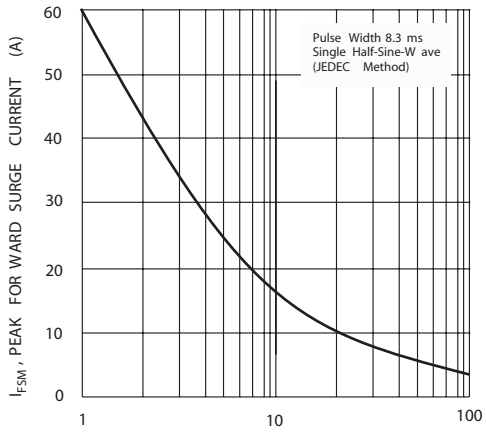


Fig. 3 Max Non-Repetitive Sur ge Current

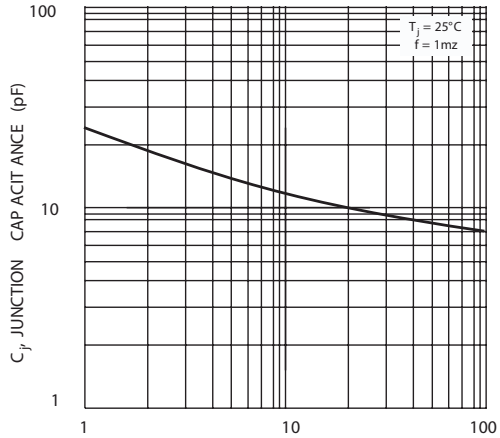


Fig. 4 Typical Junction Capacitance

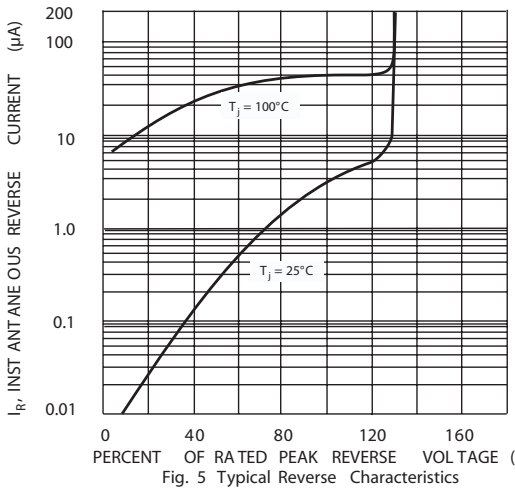


Fig. 5 Typical Reverse Characteristics