Central Plate
Electronics Co., Ltd.

Glass Passivated Bridge Rectifiers

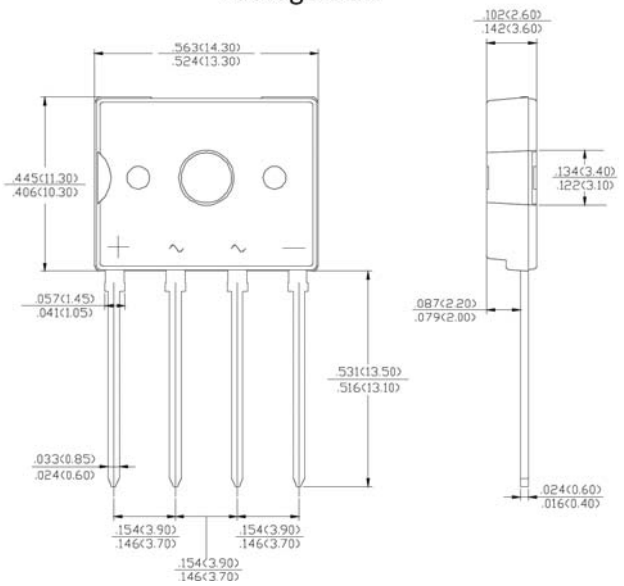
D2KB05 THRU D2KB100 50 to 1000 V 2.0 A

FEATURES

- Ideal for printed circuit boards
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260℃/10 seconds

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked on body
- Mounting Torque: 0.8N・m
- Recommended Torque: 0.5N・m

Package:D3K



Dimensions in inches and (millimeters)

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 current by 20%.

	Symbols	D2KB05	D2KB10	D2KB20	D2KB40	D2KB60	D2KB80	D2KB100	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}	60	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_C=100℃ T_A=25℃	$I_{F(AV)}$	2.0(1) 1.0(1)							Amp
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	120							Amp
Maximum Instantaneous Forward Voltage @ 1A	V_F	1.0							Volts
Maximum DC Reverse Current rated DC blocking voltage per leg @T_A=25℃ @T_A=125℃	I_R	5.0 500							uAmp
Rating for fusing (3ms≦t＜8.3ms) T_j=25℃	I^2t	60							A^2sec
Typical Thermal Resistance (Note)	$R_{\Theta JA}$ $R_{\Theta Jc}$	4.0 3.5							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTE:

1.Unit case mounted on 1.6*1.6*0.06” thick (5.1*5.1*0.15cm) Al.Plate

2.Unit mounted on P.C.B. with 0.5*0.5” (12.7*1.27mm) copper pads and 0.375” (9.5mm) lead length

RATING AND CHARACTERISTICS CURVES

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELELMENT

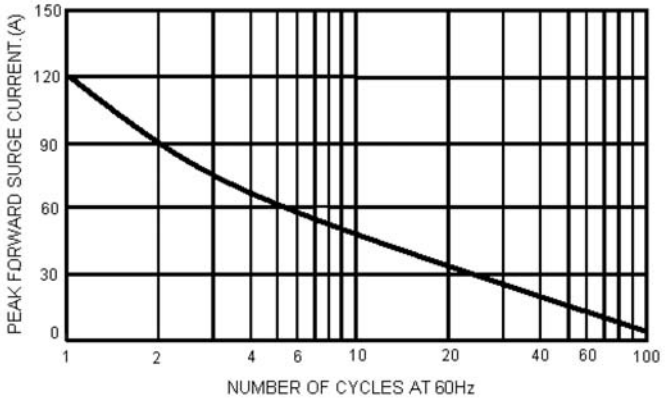


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

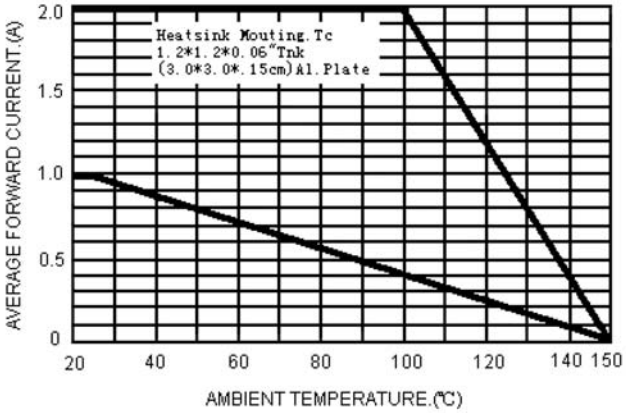


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

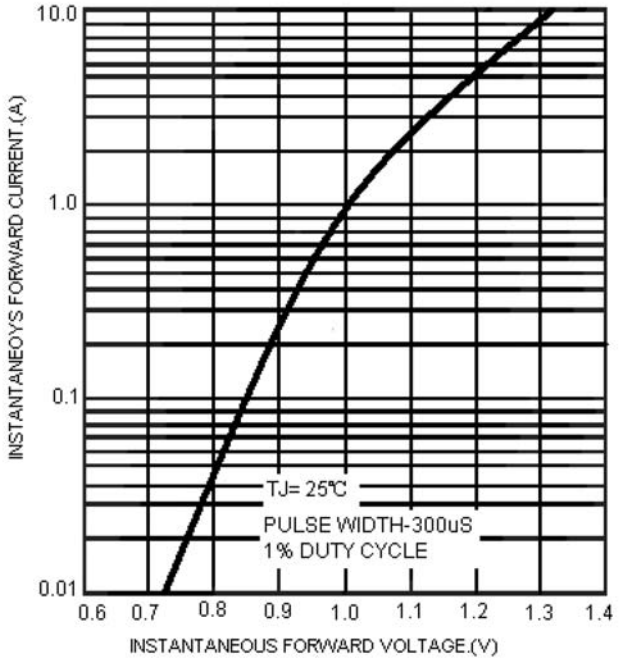


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT