

Kingtronics®

GBP2005 thru GBP210

FEATURE

VOLTAGE **50 to 1000** Volts CURRENT **2.0** Amperes

Rating to 1000V PRV

Ideal for printed circuit board

Reliable low cost construction utilizing molded plastic

technique

The plastic material has UL flammability classification 94V-0

Electrically isolated base-1500 Vlots

MECHANICAL DATA

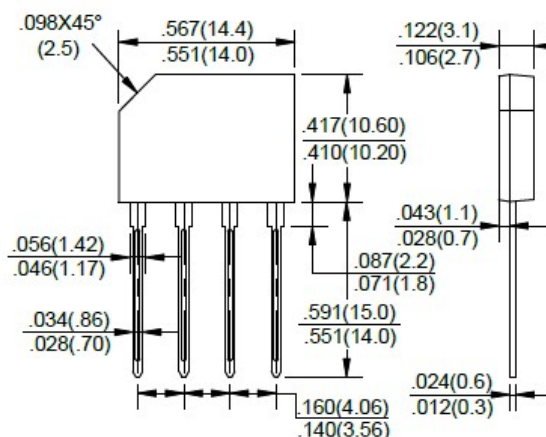
Polarity : As marked on body

Weight : 0.05 ounces, 1.52 grams

Mounting position : Any

GBP

Unit:inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	Symbols	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @TC =105 C, @TA =65 C	$I_{(AV)}$	2.0							A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	60							A	
Maximum forward Voltage at 2.0A DC	V_F	1.1							μ A	
Maximum DC Reverse Current @TJ =25 C at Rated DC Blocking Voltage @TJ =125 C	I_R	10.0							500	mA
I^2t Rating for fusing (t < 8.3ms)	I^2t	17.5							A ² S	
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	14							°C/W	
Operating Temperature Range	T_J	-55 to +125							°C	
Storage Temperature Range	T_{STG}	(-55 to +150)							°C	

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Notes: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

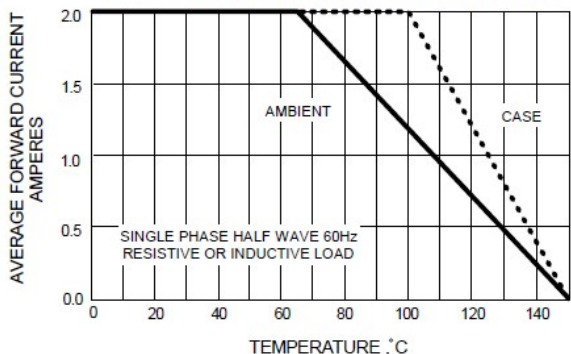


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

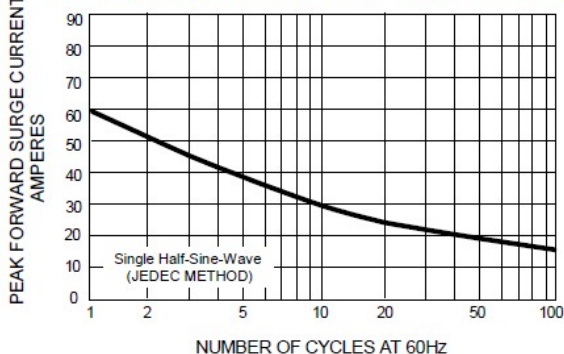


FIG.3 - TYPICAL JUNCTION CAPACITANCE

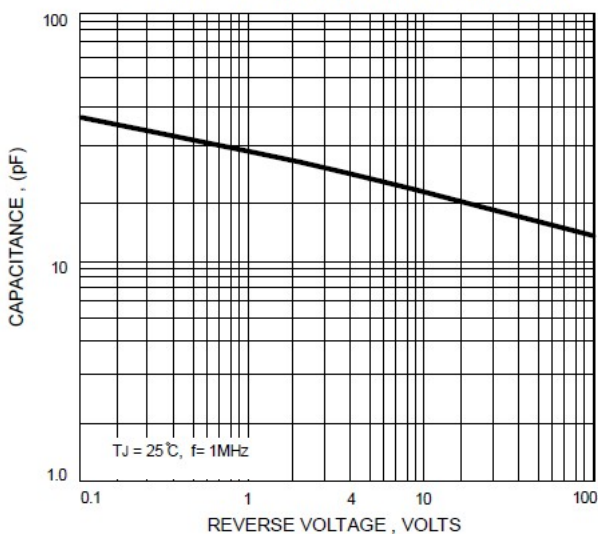


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

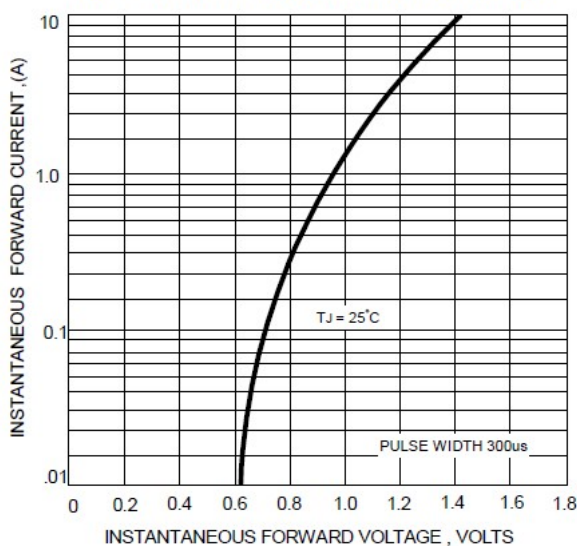


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

