

### 2.0Amp Bridge Rectifiers

#### FEATURES :

- High current capability
- Glass passivated junction chip
- Low Reverse Leakage Current.
- RoHS compliant.

#### MECHANICAL DATA :

Case : Molded plastic body, KBP-L  
 Epoxy : UL 94V-O rate flame retardant  
 Terminals : Axial leads, solderable per MIL-STD-202,  
 method 208 guaranteed  
 Polarity : As Marked on Body  
 Mounting Position : Any



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

Characteristic	Symbol	KBP 201	KBP 202	KBP 203	KBP 204	KBP 206	KBP 208	KBP 210	Unit
Maximum repetitive 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 at $T_A = 50^\circ C$	$I_o$	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	70							A
Current Squared Time	$I^2T$	26.5							$A^2S$
Typical Thermal Resistance	$R_{\theta JC}$	22							$^\circ C/W$
Typical Thermal Resistance	$R_{\theta JA}$	28							$^\circ C/W$
Maximum forward voltage at 3A DC	$V_F$	1.10							V
Maximum DC reverse current at rated DC blocking voltage ( $T_A = 25^\circ C / 150^\circ C$ )	$I_R$	10 / 1000							$\mu A$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150							$^\circ C$

RATINGS AND CHARACTERISTICS CURVES

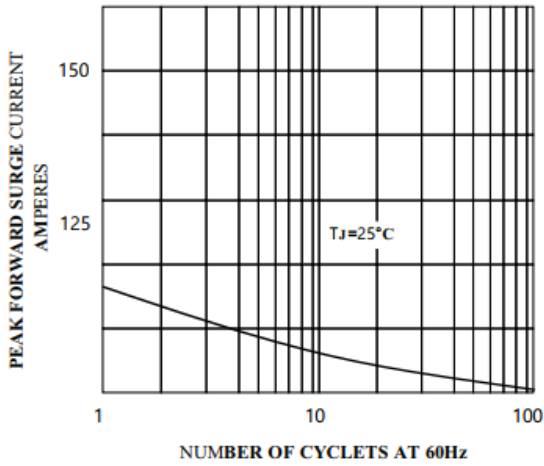


Figure 1. MAXIMUM FORWARD SURGE CURRENT

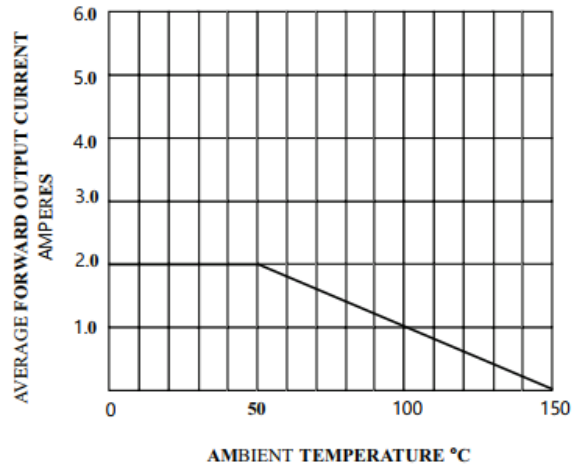


Figure 2. DERATING CURVE OUTPUT RECTIFIED CURRENT

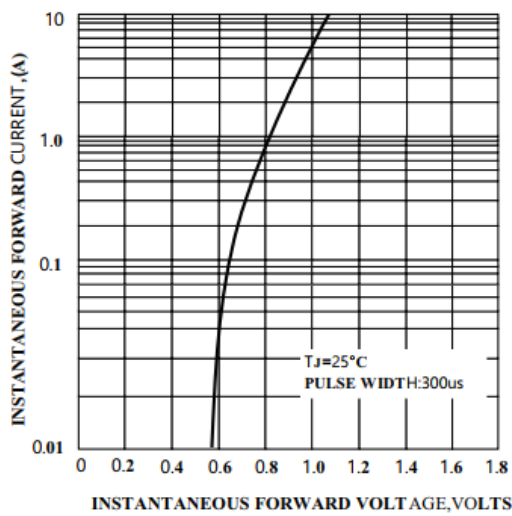


Figure 3. TYPICAL FORWARD CHARACTERISTICS

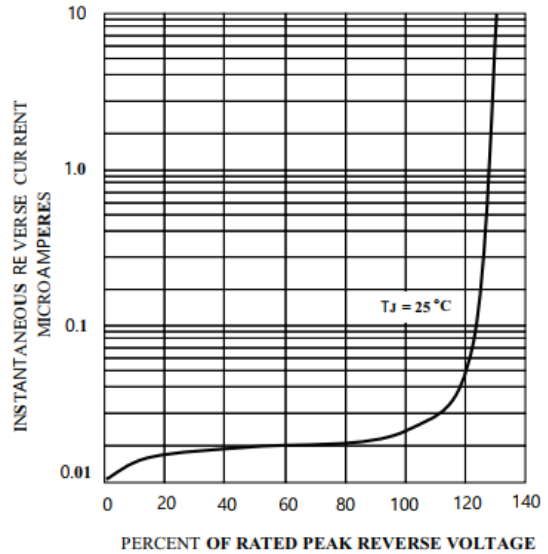
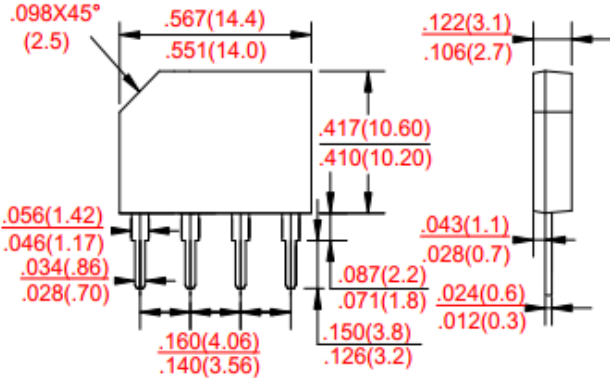
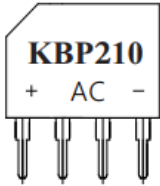


Figure 4. TYPICAL REVERSE CHARACTERISTICS

• Package outlines : Dimensions in inches and (millimeters)



• Marking :



Part No	Marking code
KBP201	KBP201
KBP202	KBP202
KBP203	KBP203
KBP204	KBP204
KBP206	KBP206
KBP208	KBP208
KBP210	KBP210

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