

VI. Bridge Rectifier

2.0A Glass Passivated Bridge Rectifier

KBPM2005G~KBPM210G

(Package: KBPM)

<p>FEATURES</p> <ul style="list-style-type: none"> • Surge overload rating – 50 amperes peak • Ideal for printed circuit board • Plastic material has Underwriters Laboratory Flammability Classification 94V-0 • Mounting position: Any <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case : Molded plastic body • Polarity : Polarity symbols marked on case • Handling Precautions : None • Weight : 1.46 grams 	<p>The diagram shows the physical dimensions of the KBPM package. Key dimensions include: - Top width: .580(14.75) mm - Top height: .417(10.60) mm - Side height: .142(3.6) mm - Side thickness: .133(3.4) mm - Lead height: .410(10.20) mm - Lead thickness: .043(1.1) mm - Lead pitch: .106(2.70) mm - Lead width: .028(0.7) mm - Lead length: .610(15.50) mm - Lead bottom height: .091(2.30) mm - Lead bottom thickness: .024(0.6) mm - Lead bottom width: .160(4.06) mm - Lead bottom length: .140(3.56) mm - Lead bottom gap: .012(0.3) mm - Lead side gap: .056(1.42) mm - Lead side thickness: .046(1.17) mm - Lead side width: .034(0.86) mm - Lead side length: .028(0.70) mm</p> <p>Case: KBPM Dimensions in inches and (millimetres)</p>
--	--

Ratings & Electrical Characteristics

Characteristics	Symbol	KBPM 2005G	KBPM 201G	KBPM 202G	KBPM 204G	KBPM 206G	KBPM 208G	KBPM 210G	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge input voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current @ Ta = 50	I _o	2.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50.0							Amps
Maximum forward voltage drop per bridge element at 2.0A peak	V _F	1.1							Volts
Maximum reverse current at rated DC blocking voltage per element	I _R	10.0							µA
Maximum reverse current at rated DC blocking voltage per element T _j =100	I _R	1.0							mA
Operating temperature range	T _j	-55 to +150							
Storage temperature range	T _{stg}	-55 to +150							

Ratings and Characteristic Curves of KBPM2005G~KBPM210G

FIG.1-FORWARD CURRENT DERATING CURVE

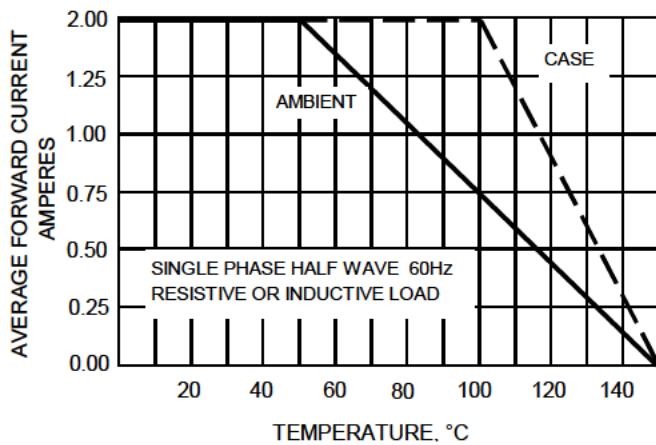


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

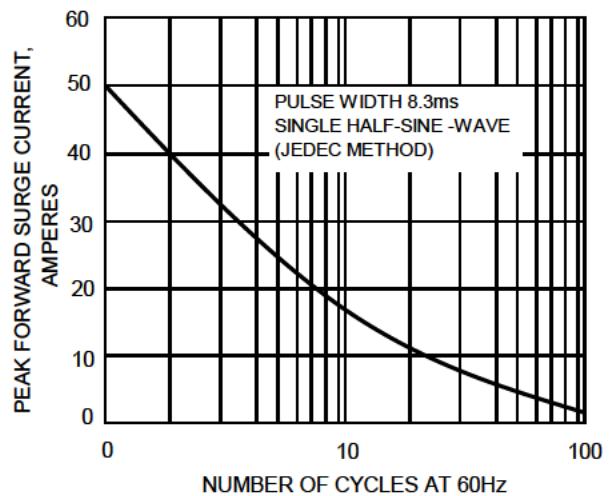


FIG.3-TYPICAL JUNCTION CAPACITANCE

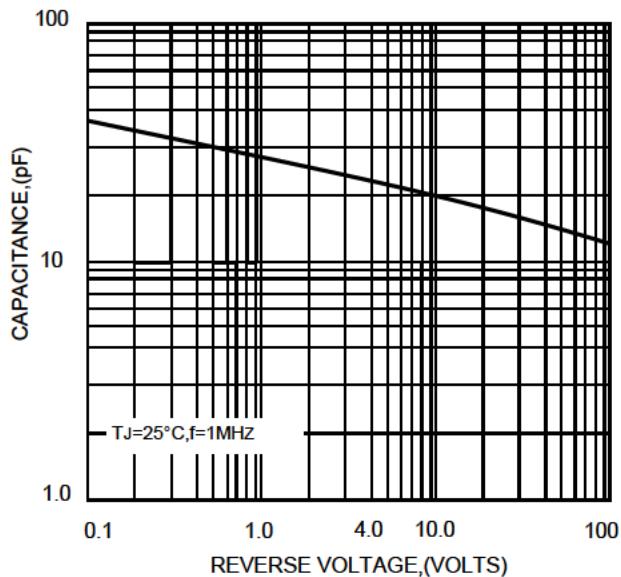


FIG.4-TYPICAL FORWARD CHARACTERISTICS

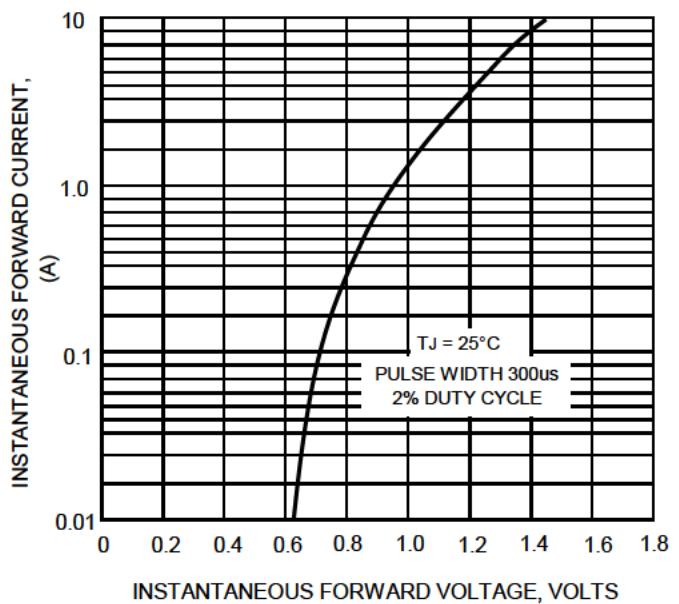


FIG.5-TYPICAL REVERSE CHARACTERISTICS

