

**GLASS PASSIVATED BRIDGE RECTIFIERS**

**REVERSE VOLTAGE – 400 to 1000 Volts  
FORWARD CURRENT – 2.0 Ampere**

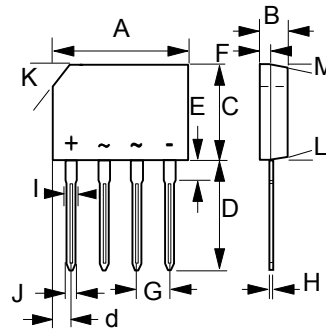
**FEATURES**

- 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
- UL recognized file #95060

**MECHANICAL DATA**

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any

**KBP**



KBP		
DIM.	MIN.	MAX.
A	14.25	14.75
B	3.35	3.65
C	10.20	10.60
D	14.25	14.73
d	1.40	1.70
E	1.80	2.20
F	0.80	1.10
G	3.56	4.06
H	0.35	0.55
I	1.22	1.42
J	0.76	0.86
K	2.7 x 45°(Typ.)	
L	-	3°
M	-	2°
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBP204G	KBP206G	KBP208G	KBP210G	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=100^\circ\text{C}$	$I_{(AV)}$	2.0				A
Peak Forward Surge Current @ $T_j = 25^\circ\text{C}$ 8.3ms single half sine-wave @ $T_j = 125^\circ\text{C}$	$I_{FSM}$	75 65				A
Peak Forward Surge Current @ $T_j = 25^\circ\text{C}$ 1.0ms single half sine-wave @ $T_j = 125^\circ\text{C}$	$I_{FSM}$	150 130				A
Maximum Forward Voltage at 2.0A DC	$V_F$	1.1				V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_j=25^\circ\text{C}$ @ $T_j=125^\circ\text{C}$	$I_R$	5.0 500				$\mu\text{A}$
$I^2t$ Rating for fusing ( $3\text{ms} \leq t \leq 8.3\text{ms}$ )	$I^2t$	17.5				$\text{A}^2\text{S}$
Typical Junction Capacitance per element (Note 1)	$C_J$	25				pF
Typical thermal resistance, Junction to Case	$R_{\theta JC}$	10				$^\circ\text{C/W}$
Operation Temperature Range	$T_J$	-55 to 150				$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to 150				$^\circ\text{C}$

Note1: Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1- FORWARD CURRENT DERATING CURVE

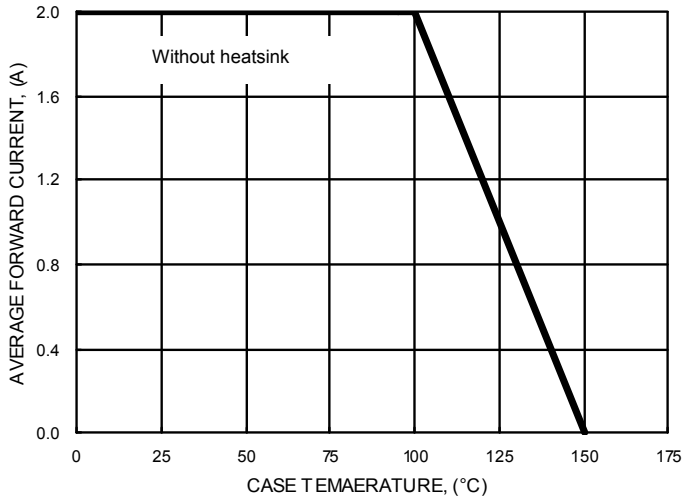


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

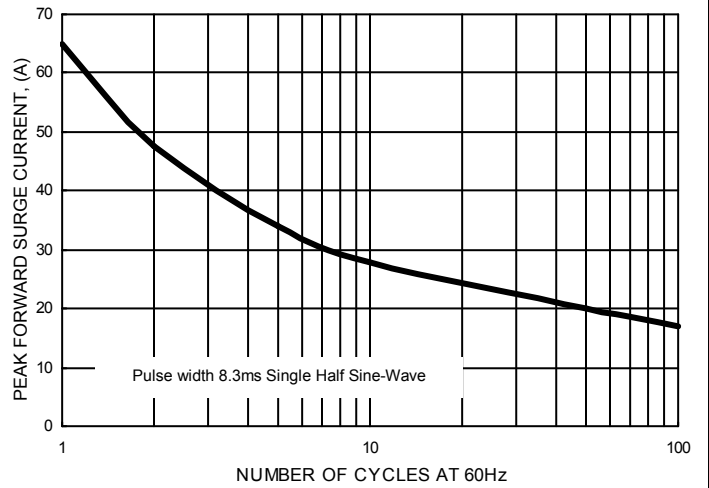


FIG.3- TYPICAL JUNCTION CAPACITANCE

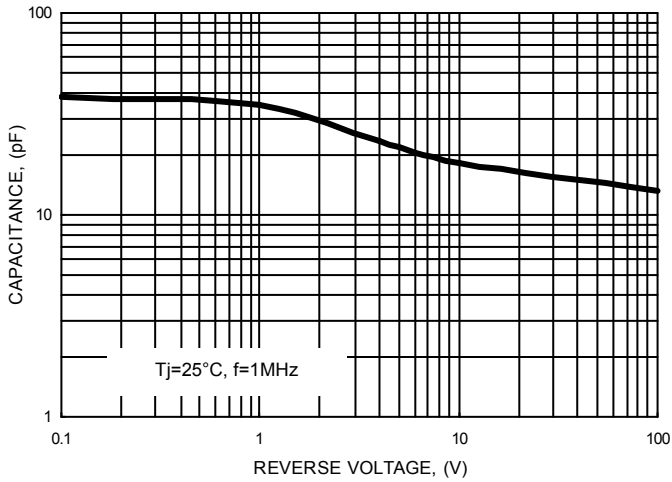


FIG.4- TYPICAL FORWARD CHARACTERISTICS

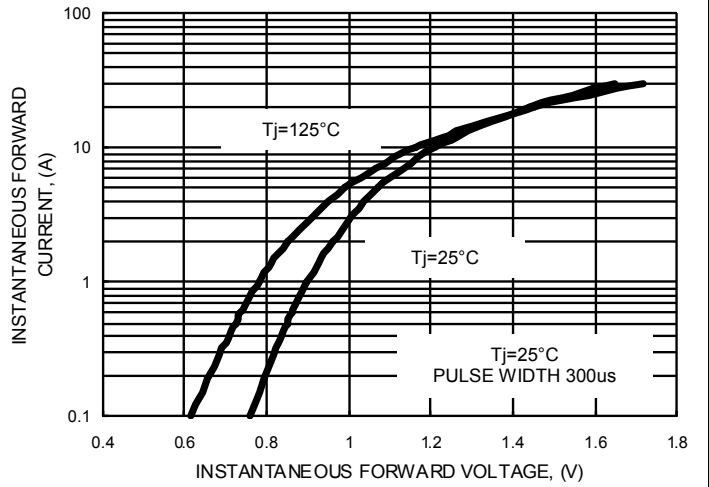


FIG.5- TYPICAL REVERSE CHARACTERISTICS

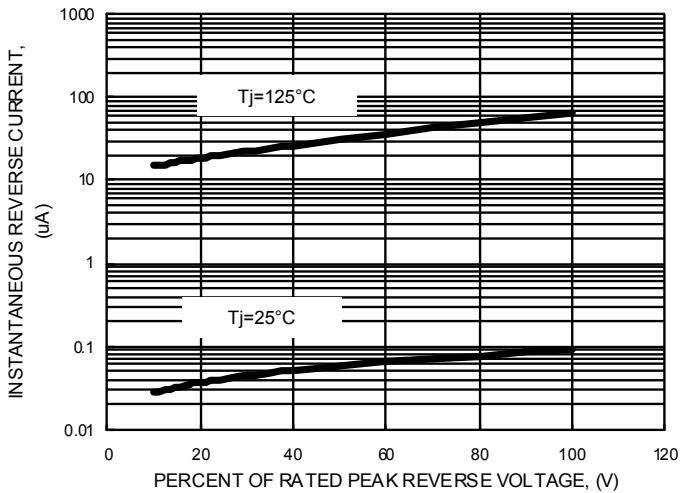


FIG.6- NON-REPETITIVE SURGE CURRENT

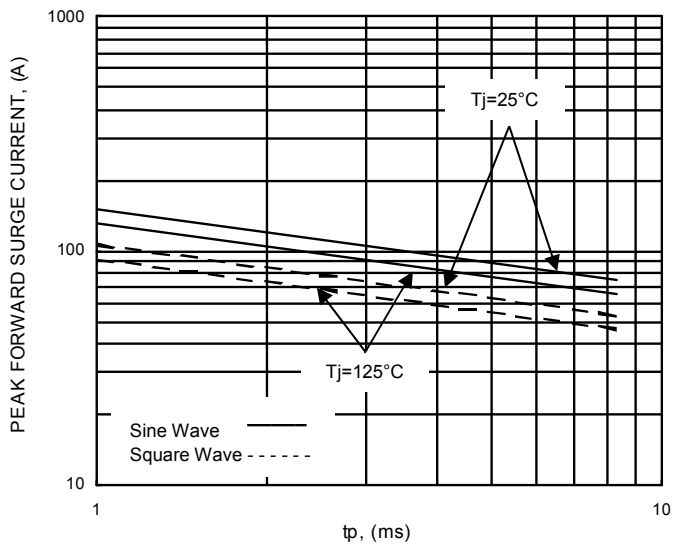
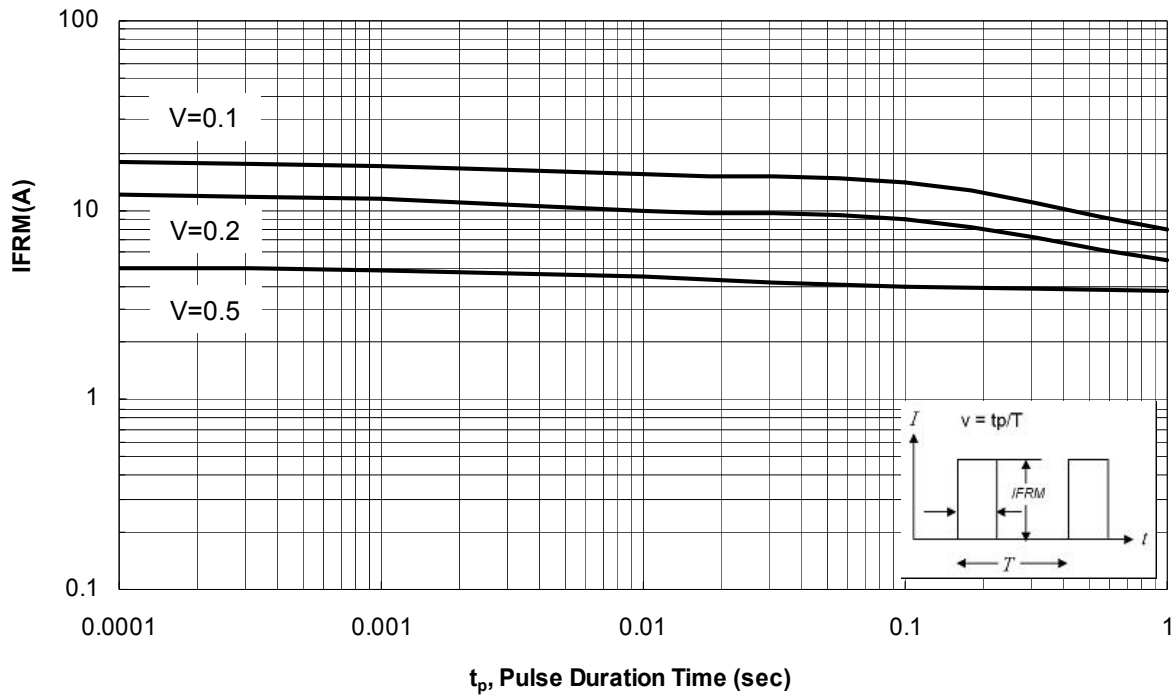


Fig.7 - Admissible Repetitive Peak Forward Current vs. Pulse Duration



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