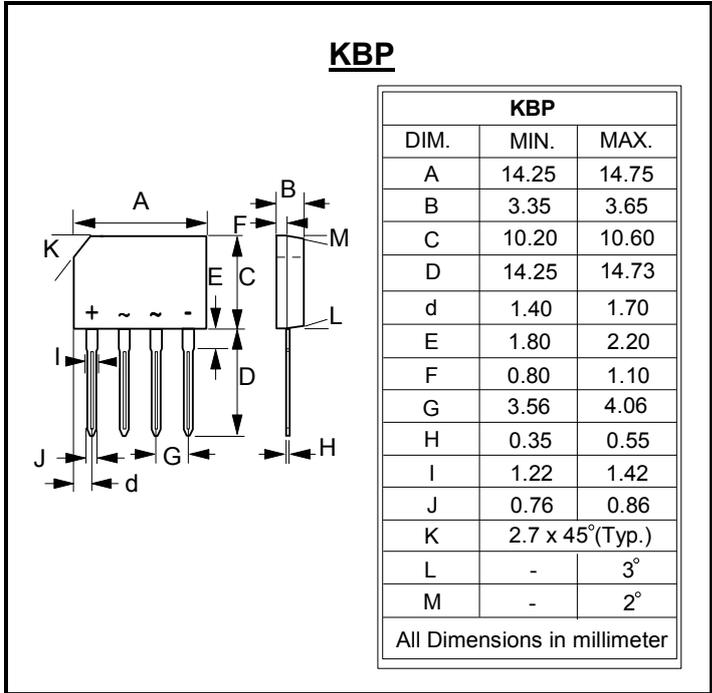


GLASS PASSIVATED BRIDGE RECTIFIERS

**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



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 @ $T_C=100^\circ C$	$I_{(AV)}$	2.0				A
Peak Forward Surge Current @ $T_j = 25^\circ C$ 8.3ms single half sine-wave @ $T_j = 125^\circ C$	I_{FSM}	75 65				A
Peak Forward Surge Current @ $T_j = 25^\circ C$ 1.0ms single half sine-wave @ $T_j = 125^\circ C$	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 @ $T_j=25^\circ C$ @ $T_j=125^\circ C$	I_R	5.0 500				μA
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	17.5				A^2S
Typical Junction Capacitance per element (Note 1)	C_J	25				pF
Typical thermal resistance (Note 2)	$R_{\theta JC}$	10				$^\circ C/W$
	$R_{\theta JL}$	18				
	$R_{\theta JA}$	40				
Operation Temperature Range	T_J	-55 to 150				$^\circ C$
Storage Temperature Range	T_{STG}	-55 to 150				$^\circ C$

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
(2) Thermal Resistance Junction to Case, Lead and Ambient.

FIG.1- FORWARD CURRENT DERATING CURVE

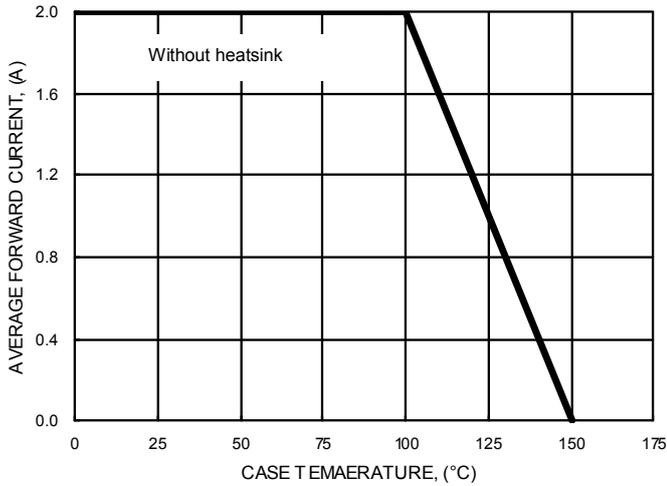


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

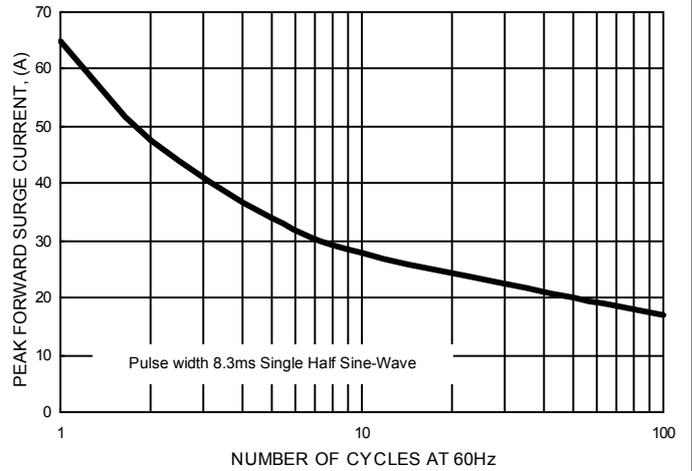


FIG.3- TYPICAL JUNCTION CAPACITANCE

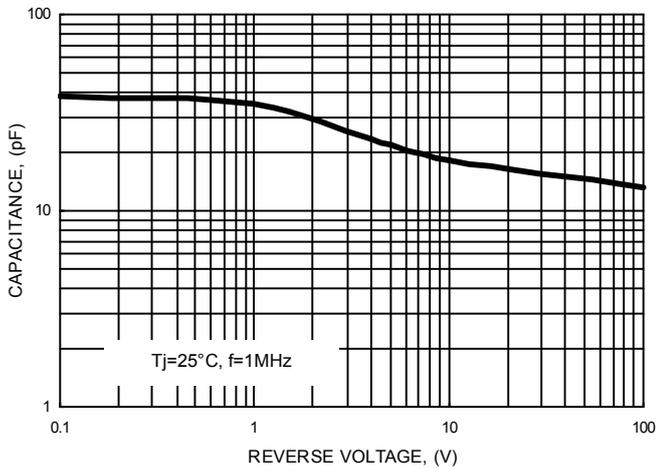


FIG.4- TYPICAL FORWARD CHARACTERISTICS

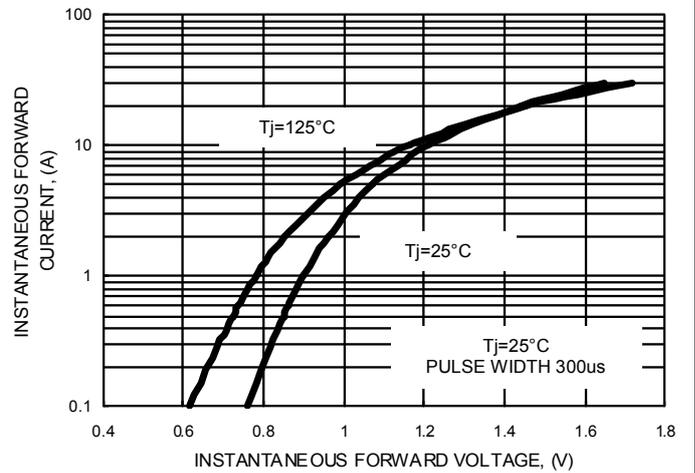


FIG.5- TYPICAL REVERSE CHARACTERISTICS

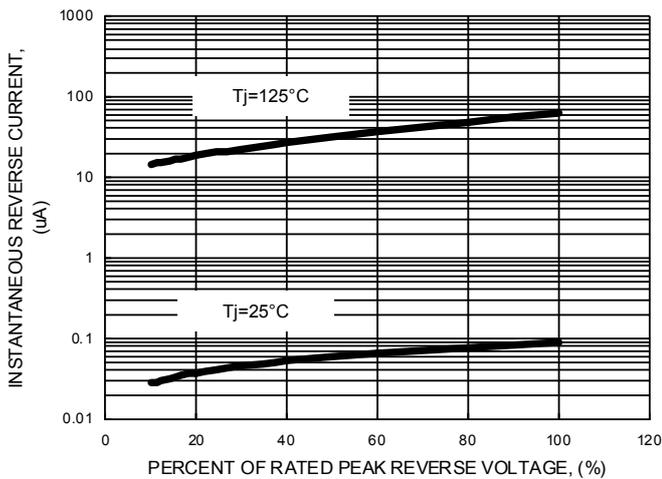


FIG.6- NON-REPETITIVE SURGE CURRENT

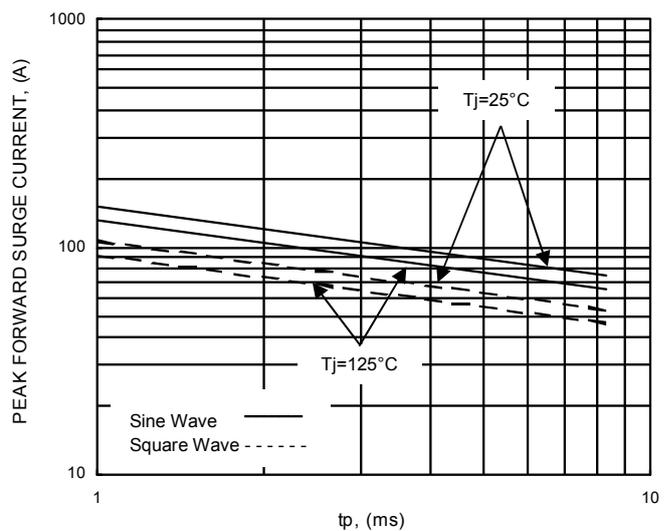
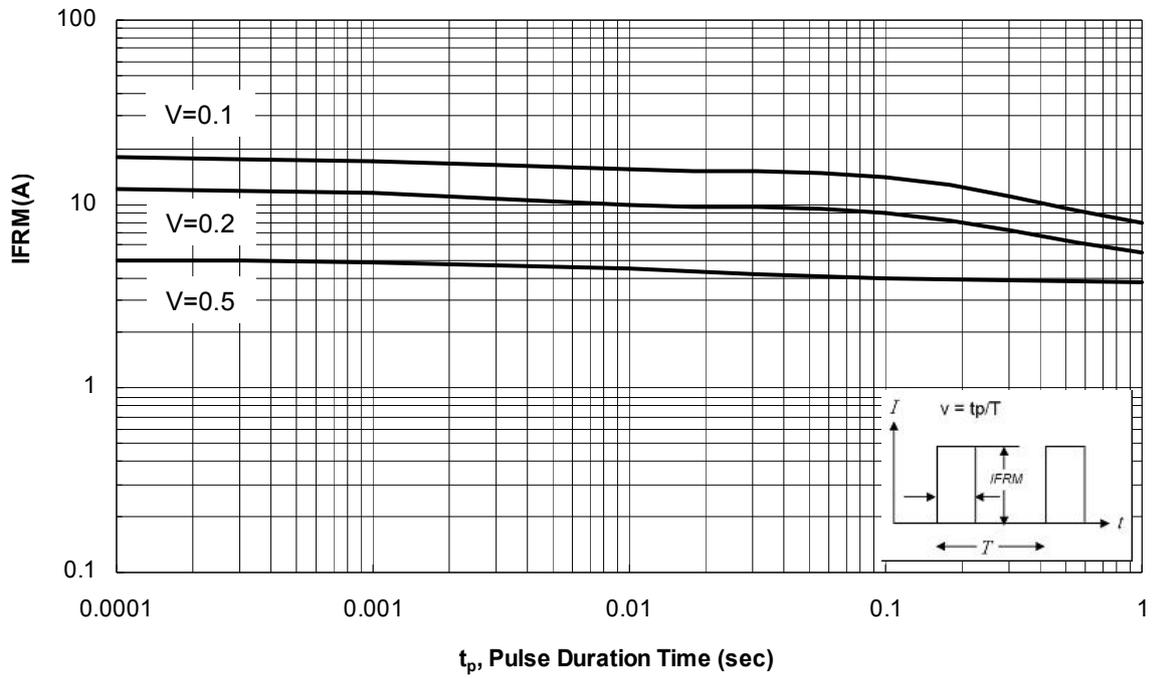


Fig.7 - Admissible Repetitive Peak Forward Current vs. Pulse Duration



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