

#### Features

- Types up to 1000 V  $V_{RRM}$
- Ideal for printed circuit board
- Surge overload rating to 65 Amps peak
- High temperature soldering guaranteed 250°C/ 10 seconds
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Reliable, low cost construction utilizing molded plastic technique

#### KBPM Package



#### Mechanical Data

Leads: Tin plated copper

Weight: 0.047 oz, 1.33 g

Mounting position: Any

Terminals: Leads solderable per MIL-STD-202, Method 208

#### Maximum ratings, at $T_j = 25 \text{ }^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	KBPM2005G	KBPM201G	KBPM202G	KBPM204G	Unit
Repetitive peak reverse voltage	$V_{RRM}$		50	100	200	400	V
RMS reverse voltage	$V_{RMS}$		35	70	140	280	V
DC blocking voltage	$V_{DC}$		50	100	200	400	V
Continuous forward current	$I_F$	$T_C \leq 65^\circ\text{C}$	2	2	2	2	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25 \text{ }^\circ\text{C}$ , $t_p = 8.3 \text{ ms}$	65	65	65	65	A
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

#### Electrical characteristics, at $T_j = 25 \text{ }^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	KBPM2005G	KBPM201G	KBPM202G	KBPM204G	Unit
Diode forward voltage	$V_F$	$I_F = 2 \text{ A}$ , $T_j = 25 \text{ }^\circ\text{C}$	1.1	1.1	1.1	1.1	V
Reverse current	$I_R$	$V_R = 50 \text{ V}$ , $T_j = 25 \text{ }^\circ\text{C}$ $V_R = 50 \text{ V}$ , $T_j = 125 \text{ }^\circ\text{C}$	5 500	5 500	5 500	5 500	$\mu\text{A}$

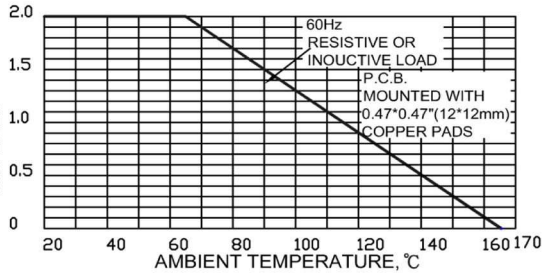
#### Thermal characteristics

Thermal resistance, junction - case	$R_{thJA}$		14.0	14.0	14.0	14.0	$^\circ\text{C/W}$
-------------------------------------	------------	--	------	------	------	------	--------------------



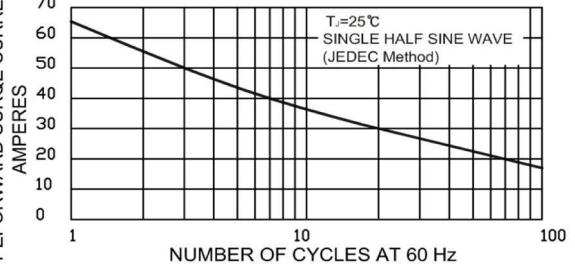
AVERAGE FORWARD OUTPUT CURRENT, AMPERES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT



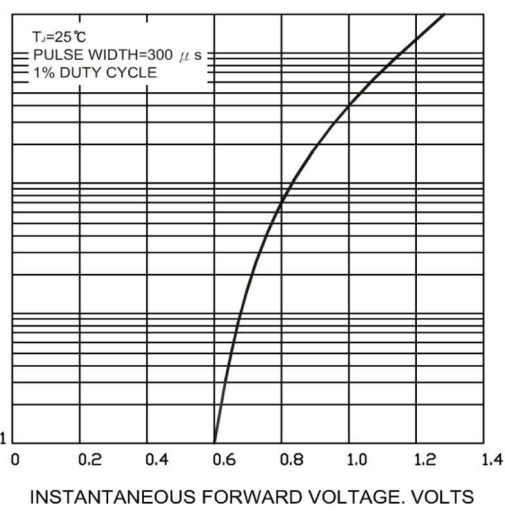
PEFORWARD SURGE CURRENT, AMPERES

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG



INSTANTANEOUS FORWARD CURRENT AMPERES

FIG.3-TYPICAL FORWARD CHARACTERISTICS PER LEG



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG.4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

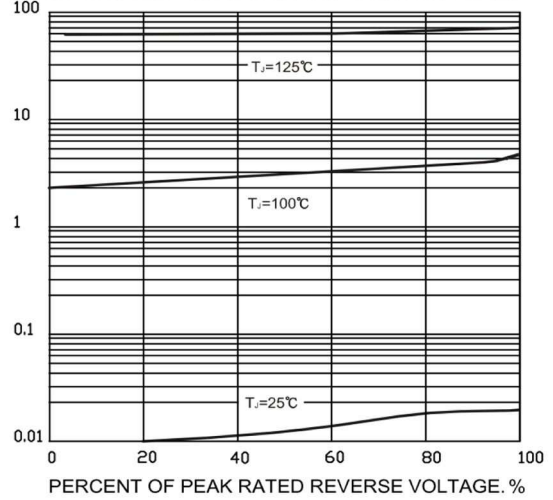


FIG.5-TYPICAL JUNCTION CAPACITANCE PER LGE

