

## Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 1000\text{ V}$   
 $I_F = 2\text{ A}$

### 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 $T_j = 25\text{ °C}$ , 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	$I_F$	$T_C \leq 65\text{ °C}$	2	2	2	2	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$ , $t_p = 8.3\text{ ms}$	65	65	65	65	A
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

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