



**America Semiconductor**

**Silicon Bridge Rectifier**

**KBU10005 thru KBU1004**

**$V_{RRM} = 50\text{ V} - 1000\text{ V}$**

**$I_F = 10\text{ A}$**

**Features**

- Types up to 1000 V  $V_{RRM}$
- Ideal for printed circuit board
- High forward surge current capability
- High temperature soldering guaranteed 250°C/ 10 seconds, 0.375"(9.5 mm) lead length, 5 lbs(2.3 kg) tension
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

**KBU Package**



**Mechanical Data**

Case: Molded plastic body  
 Weight: 0.268 oz, 7.6 g  
 Mounting position: Any  
 Terminals: Plated leads, solderable per MIL-STD-750, Method 2026  
 Mounting torque: 5 inch-lbs max

**Maximum ratings, at  $T_j = 25\text{ °C}$ , unless otherwise specified**

Parameter	Symbol	Conditions	KBU10005	KBU1001	KBU1002	KBU1004	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	$I_F$	$T_C \leq 100\text{ °C}$	10	10	10	10	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$ , $t_p = 8.3\text{ ms}$	250	250	250	250	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	KBU10005	KBU1001	KBU1002	KBU1004	Unit
Diode forward voltage	$V_F$	$I_F = 5\text{ A}$ , $T_j = 25\text{ °C}$	1.1	1.1	1.1	1.1	V
Reverse current	$I_R$	$V_R = 50\text{ V}$ , $T_j = 25\text{ °C}$	10	10	10	10	$\mu\text{A}$
		$V_R = 50\text{ V}$ , $T_j = 100\text{ °C}$	500	500	500	500	



