

**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
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

**KBU Package**



**Mechanical Data**

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

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

Parameter	Symbol	Conditions	KBU6A	KBU6B	KBU6D	KBU6G	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	$I_F$	$T_C \leq 100\text{ }^\circ\text{C}$	6	6	6	6	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^\circ\text{C}$ , $t_p = 8.3\text{ ms}$	250	250	250	250	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	KBU6A	KBU6B	KBU6D	KBU6G	Unit
Diode forward voltage	$V_F$	$I_F = 6\text{ A}$ , $T_j = 25\text{ }^\circ\text{C}$	1	1	1	1	V
Reverse current	$I_R$	$V_R = 50\text{ V}$ , $T_j = 25\text{ }^\circ\text{C}$	10	10	10	10	$\mu\text{A}$
		$V_R = 50\text{ V}$ , $T_j = 100\text{ }^\circ\text{C}$	500	500	500	500	

