

Maximum Ratings and Electrical Characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

Type Number	Symbol	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Units
	-	601	602	603	604	605	606	607	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 65^{\circ}C$	I _(AV)	6.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							А
Maximum Instantaneous Forward Voltage @ 6.0A	V_{F}	1.0							V
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}C$	lR	I _R 10 500							uA
	i.								uA
pical Thermal resistance (Note 1) R0JA 8.6							°C/W		
(Note 2)	RθJL	3.1							
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note: 1. Thermal resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5 x 0.5" (12 x 12mm) Copper Pads, 0.375" (9.5mm) Lead Length.

2. Thermal resistance from Junction to Case with units Mounted on 2.6 x 1.4 x 0.06" Thick (6.5 x 3.5 x 15cm) Al. Plate



