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America Semiconductor

"In America Semi We Trust"

MANUFACTURER OF WORLD CLASS HIGH POWER SEMICONDUCTORS

America Semiconductor

KBJ4005G thru KBJ404G

Silicon Bridge Rectifier

V_{RRM} = 50 V - 1000 V

I_F =4 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- Surge overload rating to 120 Amperes peak
- High temperature soldering guaranteed: 250°C/ 10 seconds
- Reliable, low cost construction

KBJ Package

Mechanical Data

Case: Molded plastic

Weight: 0.15 oz, 4 g

Mounting torque: 5 inch-lb max

Maximum ratings, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBJ4005G	KBJ401G	KBJ402G	KBJ404G	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	$T_C \leq 115$ °C	4	4	4	4	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	T_C = 25 °C, t_p = 8.3 ms	120	120	120	120	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 Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBJ4005G	KBJ401G	KBJ402G	KBJ404G	Unit
Diode forward voltage	V_F	I_F = 4 A, T_j = 25 °C	1	1	1	1	V
Reverse current	I_R	V_R = 50 V, T_j = 25 °C V_R = 50 V, T_j = 125 °C	5 500	5 500	5 500	5 500	μA

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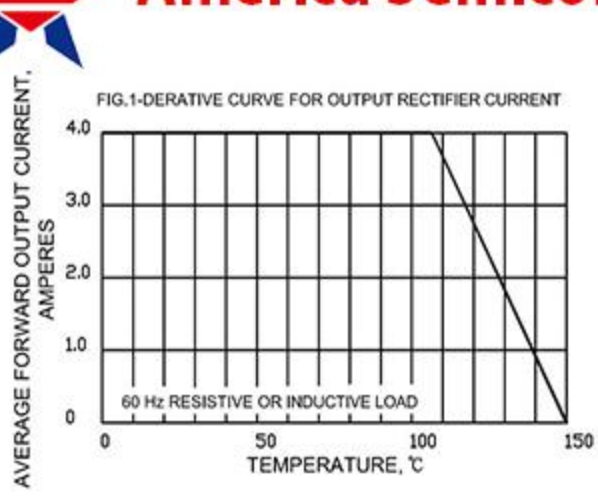

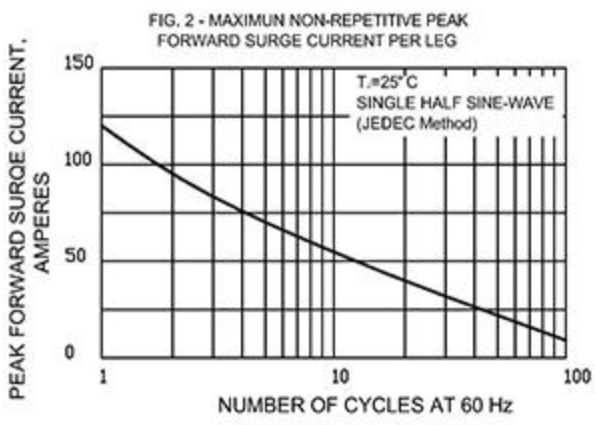

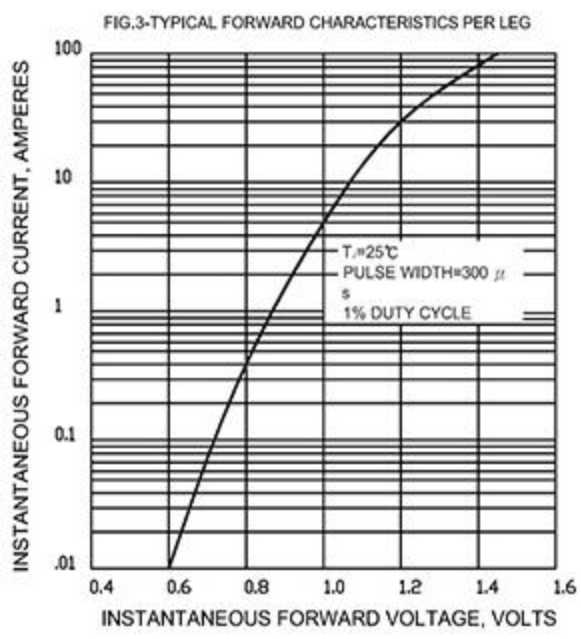

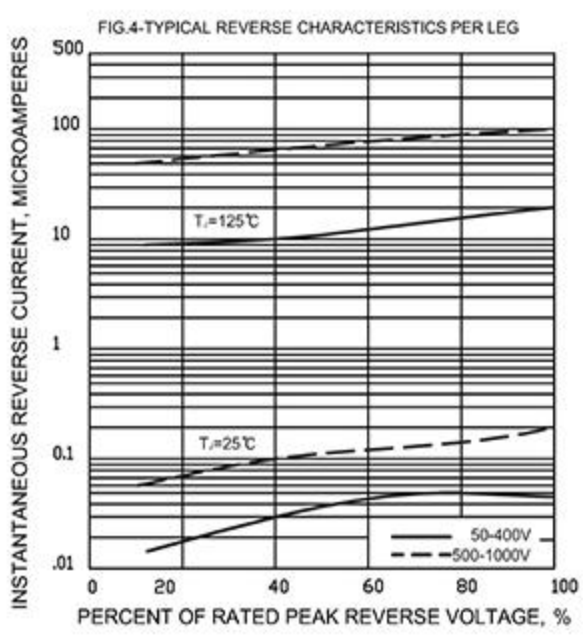

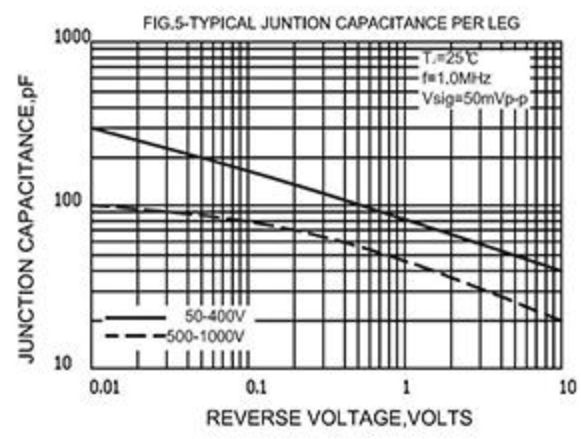

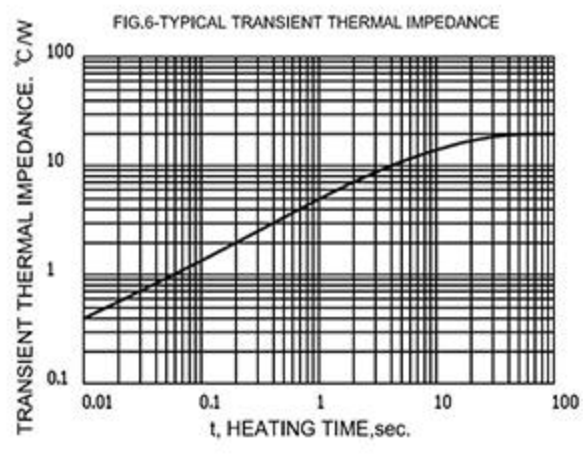

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