

Silicon Bridge Rectifiers

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 150 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208

MECHANCAL DATA

- Polarity:Symbols molded on body
- Weight: 0.16 ounces,4.45 grams
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.

Single phase, half wave,60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	
		4005	401	402	404	406		UNITS	
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 Output current @T_A=100 $^\circ\!\mathrm{C}$	I _{F(AV)}	4.0					A		
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	150.0					A		
Maximum instantaneous forward voltage @2.0A	V _F	1.0					V		
Maximum reverse current @T _A =25 $^{\circ}$ C	1_	10.0							μA
at rated DC blocking voltage @T_a=100 $^\circ\!\mathrm{C}$	I _R	1.0							mA
Typical junction capacitance per element	CJ	45					pF		
Typical thermal resistance	$R_{ extsf{ heta}JC}$	2.2					°C/W		
Operating junction temperature range	TJ	- 55 + 150					°C		
Storage temperature range	T _{STG}	- 55 + 150					°C		

NOTES:1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

2. Dev ice mounted on 300mm X 300mm X 1.6mm cu Plate heatsink.



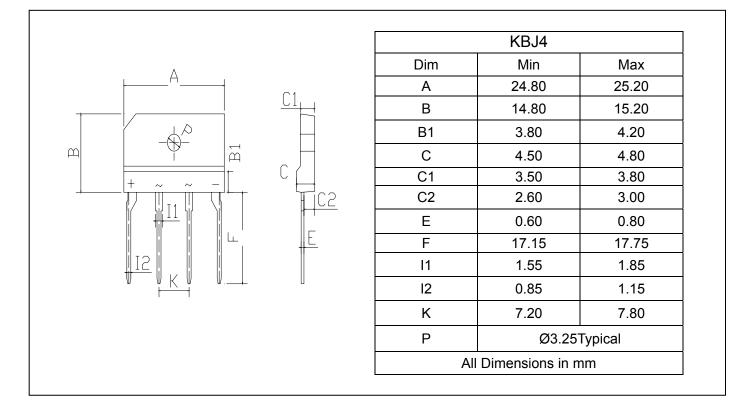
KBJ4005--KBJ410



Silicon Bridge Rectifiers

KBJ4005--KBJ410

PACKAGE OUTLINE DIMENSIONS



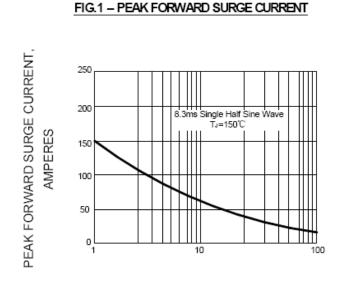
PACKAGE INFORMATION

Device	Package	Shipping		
KBJ4005KBJ410	KBJ4	250 Units/Box		



Silicon Bridge Rectifiers

KBJ4005--KBJ410



NUMBER OF CYCLES AT 60Hz

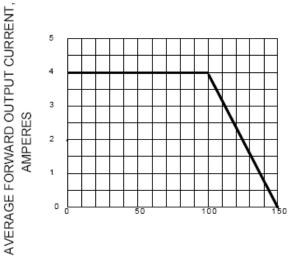
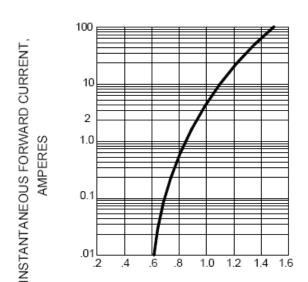


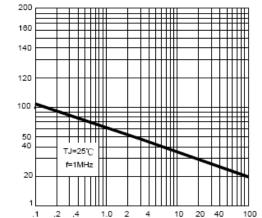
FIG.2 - FORWARD DERATING CURVE

FIG.3 - TYPICAL FORWARD CHARACTERISTIC



JUNCTION CAPACITANCE, PF

FIG.4 - TYPICAL JUNCTION CAPACITANCE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

REVERSE VOLTAGE, VOLTS

AMBIENT TEMPERATURE, "C