

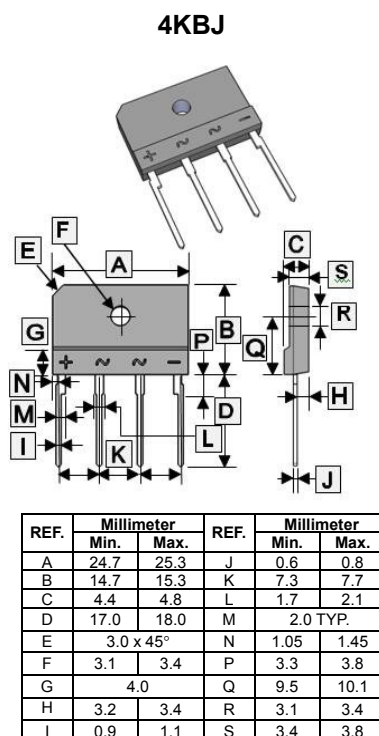
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Glass Passivated Chip
- High Surge Forward Current Capability

APPLICATIONS

- General Purpose 1 Phase Bridge Rectifier Applications



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter		Symbol	Part Number						Unit	
			KBJ 15005	KBJ 1501	KBJ 1502	KBJ 1504	KBJ 1506	KBJ 1508		KBJ 1510
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current@60Hz sine wave, R-load	With heatsink, T _C =140°C	I _O	15						A	
	Without heatsink, T _A =25°C		3.6							
Surge (Non-repetitive) Forward Current @60Hz sine wave, 1 cycle, T _J =25°C		I _{FSM}	220						A	
Current Squared Time@1ms ≤ t < 8.3ms, T _J =25°C, Rating of per diode		I ² t	201						A ² S	
Dielectric Strength @Terminals to case, AC 1 minute		V _{DIS}	2.5						KV	
Mounting Torque @Recommend torque: 5kg · cm		Tor	8						Kg · cm	
Peak Forward Voltage @I _{FM} =10A, Pulse measurement, Rating of per diode		V _{FM}	1						V	
Peak Reverse Current @V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode		I _{RRM}	5						μA	
Thermal Resistance	Without heatsink	R _{θJA}	25						°C/W	
	With heatsink	R _{θJC}	1.8							
Junction and Storage temperature range		T _J , T _{STG}	-55~150						°C	

RATINGS AND CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

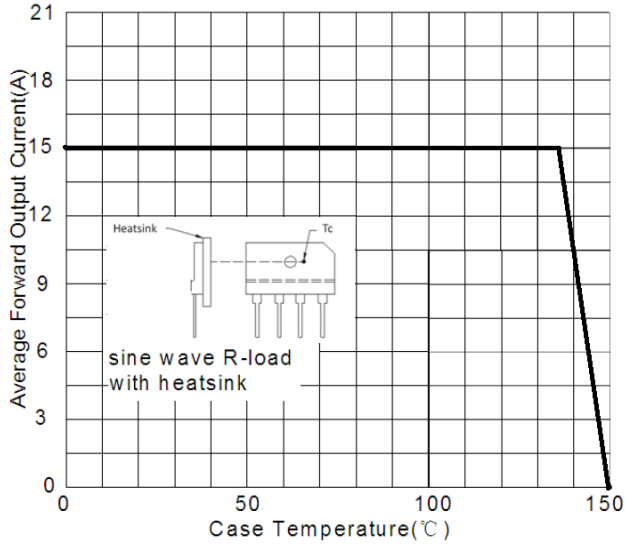


FIG2: Surge Forward Current Capability

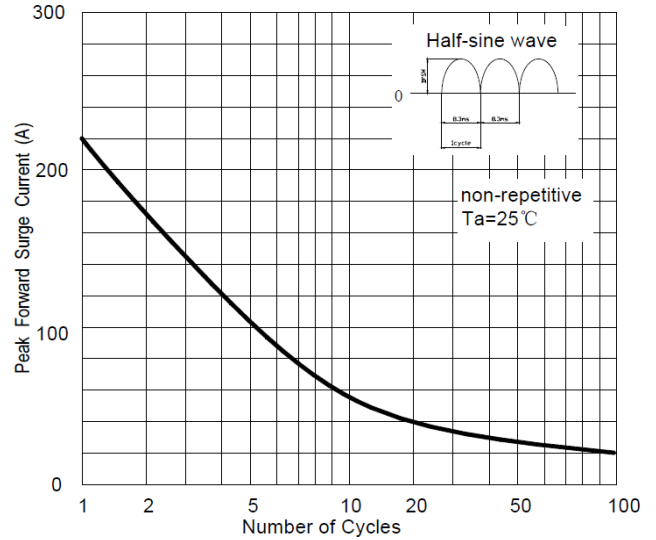


FIG3: Forward Voltage

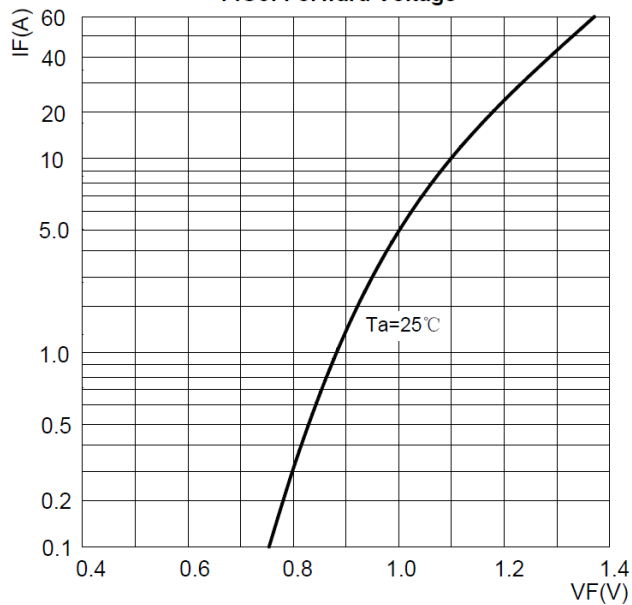


FIG4: Typical Reverse Characteristics

