Elektronische Bauelemente

KBJ15005~KBJ1510

Voltage 50V~1000V

15Amp Glass Passivated Bridge Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

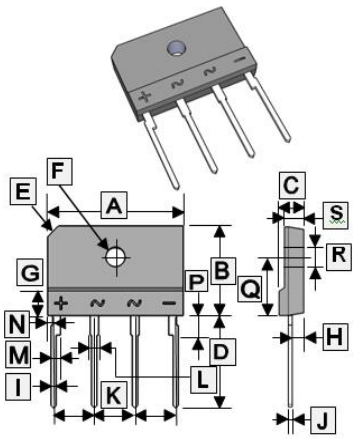
FEATURES

- Glass Passivated Chip
- High Surge Forward Current Capability

APPLICATIONS

- General Purpose 1 Phase Bridge Rectifier Applications

4KBJ



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	24.7	25.3	J	0.6	0.8
B	14.7	15.3	K	7.3	7.7
C	4.4	4.8	L	1.7	2.1
D	17.0	18.0	M	2.0 TYP.	
E	3.0 x 45°		N	1.05	1.45
F	3.1	3.4	P	3.3	3.8
G	4.0		Q	9.5	10.1
H	3.2	3.4	R	3.1	3.4
I	0.9	1.1	S	3.4	3.8

ORDER INFORMATION

Part Number	Type
KBJ15005~KBJ1510	Lead (Pb)-free
KBJ15005-C~KBJ1510-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ 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=110℃	I_O	15							A
	Without Heatsink, T_A=25℃		3.6							
Surge (Non-repetitive) Forward Current @60Hz Sine Wave, 1 cycle, T_J=25℃		I_{FSM}	220							A
Current Squared Time @1ms≦t＜8.3ms, T_J=25℃, Rating of Per Diode		I^2t	201							A^2S
Dielectric Strength @Terminals to Case, AC 1 minute		V_{DIS}	2							KV
Mounting Torque @Recommend Torque: 5kg・cm		Tor	8							Kg・cm
Peak Forward Voltage @I_{FM}=7.5A, Pulse Measurement, Rating of Per Diode		V_F	1							V
Peak Reverse Current @V_{RM}=V_{RRM}, Pulse Measurement, Rating of Per Diode		I_{RRM}	5							μA
Thermal Resistance	Without Heatsink	$R_{\theta JA}$	25							℃/W
	With Heatsink	$R_{\theta JC}$	2.3							
Junction and Storage Temperature Range		T_J, T_{STG}	-55~150							℃

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RATINGS AND CHARACTERISTIC CURVES

FIG1: Io-Tc Curve

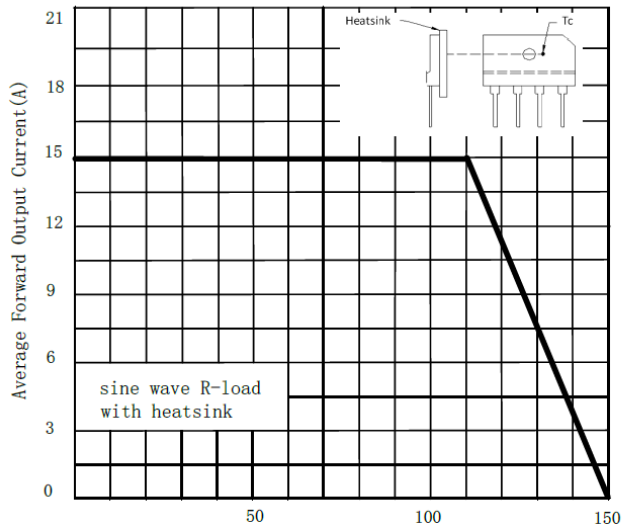

FIG2:Surge Forward Current Capability

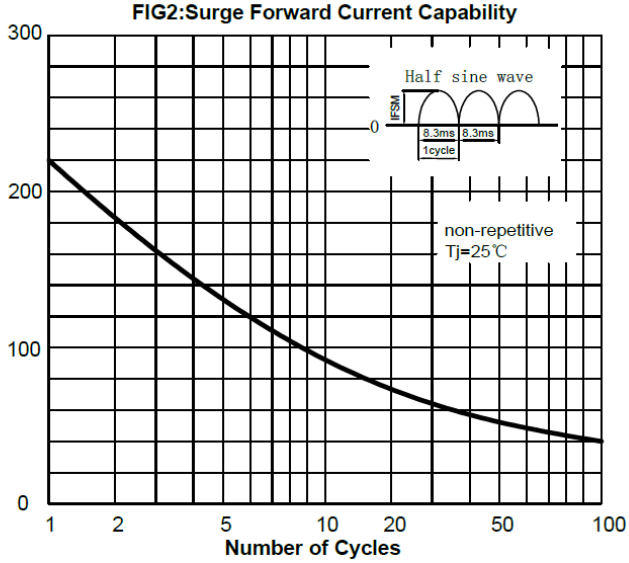

FIG3:Instantaneous Forward Voltage

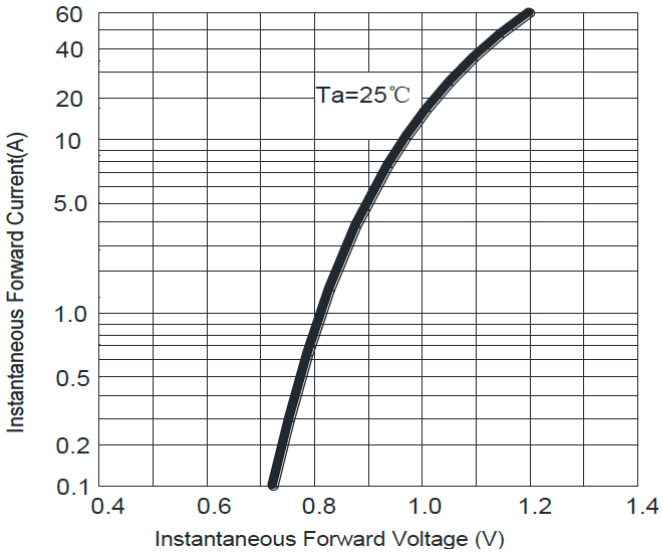

FIG4:Typical Reverse Characteristics