

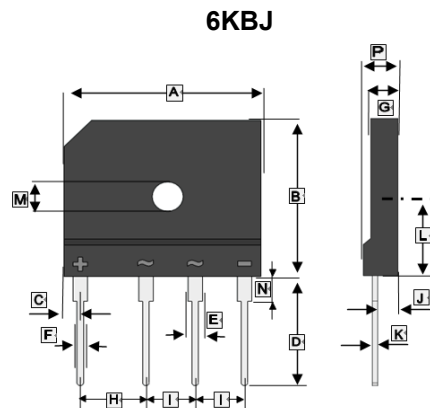
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Glass Passivated Chip
- High Surge Forward Current Capability

APPLICATIONS

- General Purpose 1 Phase Bridge Rectifier Applications



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	29.7	30.3	I	7.3	7.7
B	19.7	20.3	J	2.5	3.9
C	2.3	2.7	K	0.6	0.8
D	17	18	L	10.8	11.2
E	2.0	2.4	M	φ 3.3 TYP.	
F	0.9	1.1	N	3.8	4.2
G	3.4	3.8	P	4.4	4.8
H	9.8	10.2			

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

Parameter		Symbol	Part Number							Unit
			GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	
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 =130°C	I _O	35							A
	Without Heatsink T _A =25°C		3.5							
Surge (Non-repetitive) Forward Current @60Hz sine wave, 1 cycle, T _J =25°C		I _{FSM}	320							A
Current Squared Time		I ² t	424							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} =17.5A, Pulse measurement, Rating of per diode		V _{FM}	1.1							V
Peak Reverse Current@ V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode		I _{RRM}	10							μA
Thermal Resistance	Without Heatsink	R _{θJA}	22							°C/W
	With Heatsink	R _{θJC}	0.8							
Junction and Storage Temperature Range		T _J , T _{STG}	-55~150							°C

RATINGS AND CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

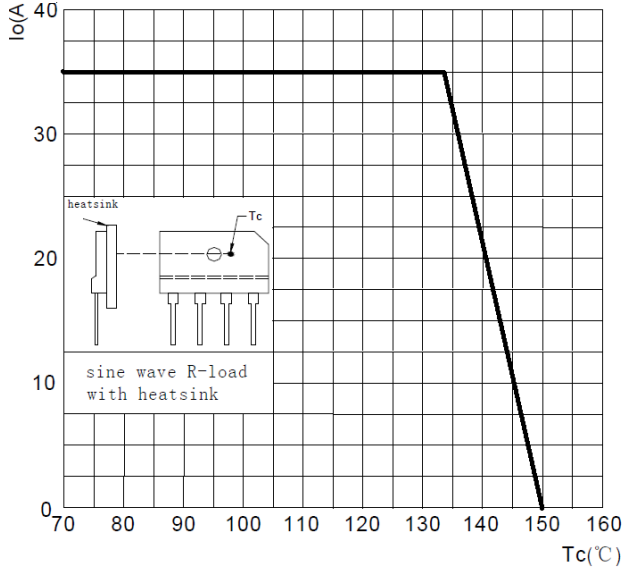


FIG2: Surge Forward Current Capability

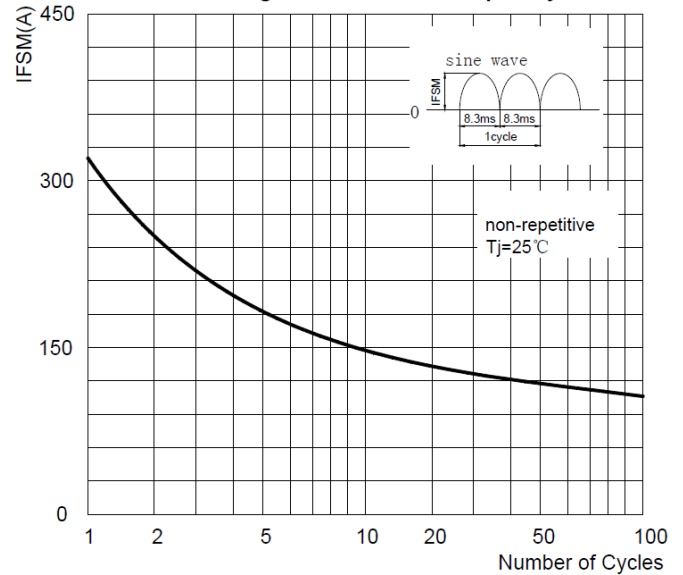


FIG3: Forward Voltage

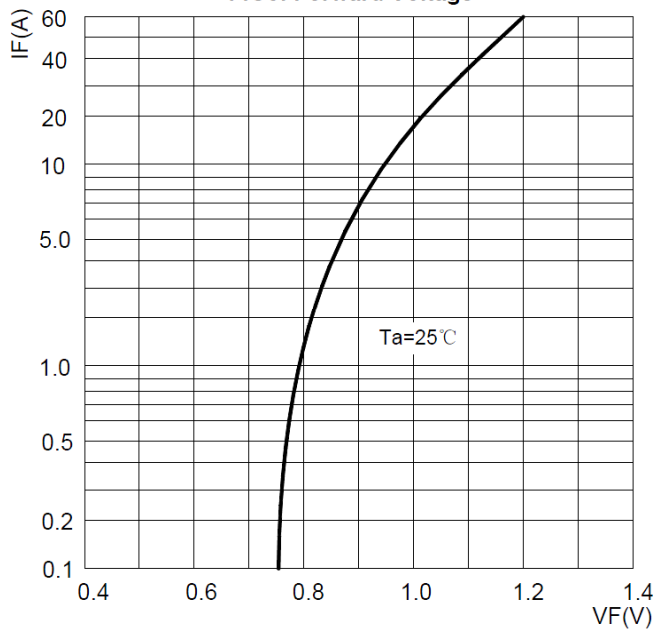


FIG4: Typical Reverse Characteristics

