Elektronische Bauelemente

GBJ35005 ~ GBJ3510

Voltage 50V ~ 1000V

35Amp Glass Passivated Bridge Rectifiers

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

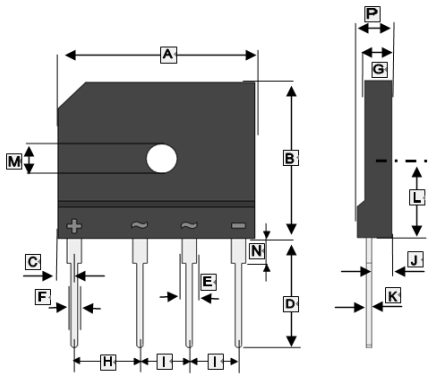
FEATURES

- Glass Passivated Chip
- High Surge Forward Current Capability

APPLICATIONS

- General Purpose 1 Phase Bridge Rectifier Applications

6KBJ



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 @60H_Z sine wave, 1 cycle, T_J=25°C		I_{FSM}	320							A
Current Squared Time		I^2t	424							A^2S
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	$R_{\theta JA}$	22							°C/W
	With Heatsink	$R_{\theta JC}$	0.8							
Junction and Storage Temperature Range		T_J,T_{STG}	-55~150							°C

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RATINGS AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

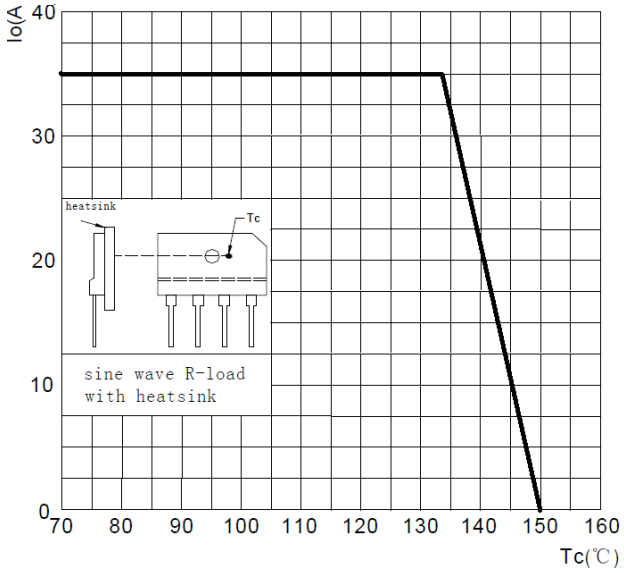

FIG2:Surge Forward Current Capadility

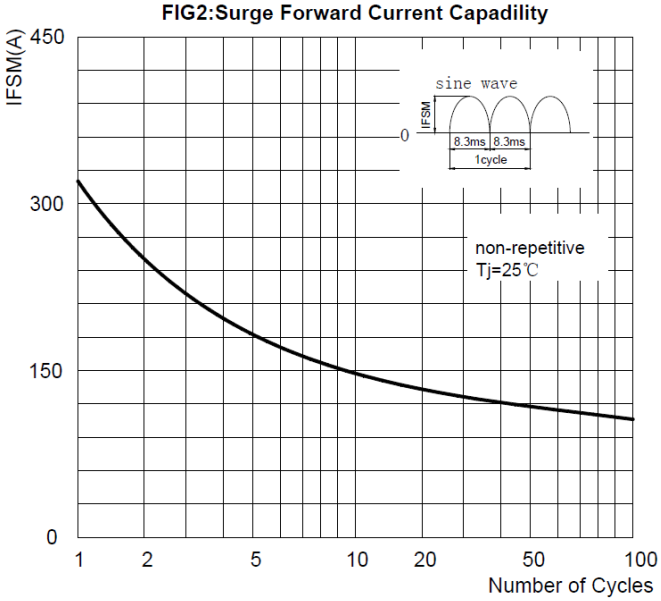

FIG3: Forward Voltage

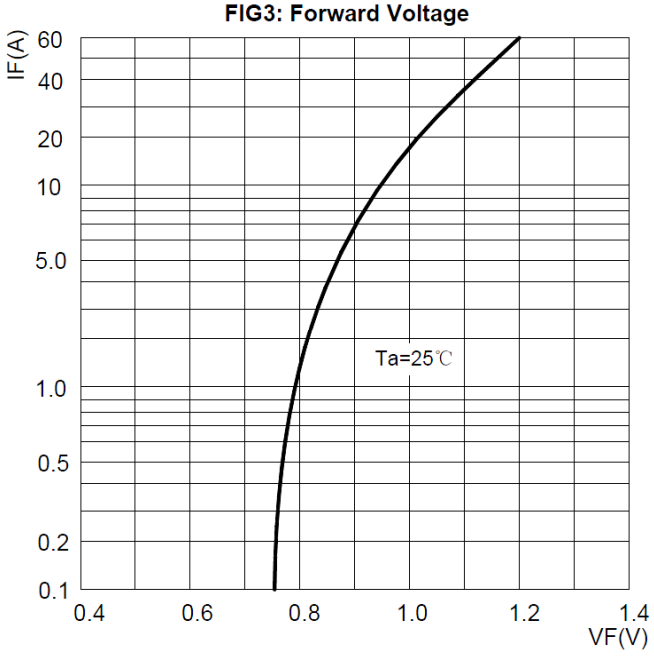

FIG4:Typical Reverse Characteristics