Bridge Rectifiers

Features

w1 M S-compliant

- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■**Maximum Ratings** (T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBJ5010D
Device marking code				GBJ5010D
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	1600
Maximum RMS Voltage		V_{RMS}	V	1120
Maximum DC blocking Voltage		V_{DC}	V	1600
Average rectified output current @60Hz sine wave, R-load,	With heatsink Tc =50	I_O	A	50.0
	Without heatsink Ta =25			5.2
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I_{FSM}	A	500
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				1000
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I^2t	A^2s	1037.5
Storage temperature		T_{stg}		-55 ~ +150
Junction temperature		T_j		

al Characteristics T_a=25 Unless otherwise specified

AMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ5010D
stantaneous ge drop per diode	V_F	V	I_{FM}=25A	1.1
C reverse current blocking voltage	I_R	μA	T_j=25	5
			T_j=125	500
ion capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	160

Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	GBJ5010D
Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18.0
Between junction and case, With heatsink	$R_{\theta J-C}$		1.0

e mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

g Information (Example)

ERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
5015 0D	B1	Approximate 6.5	15	750	1500	TUBE e "

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website