

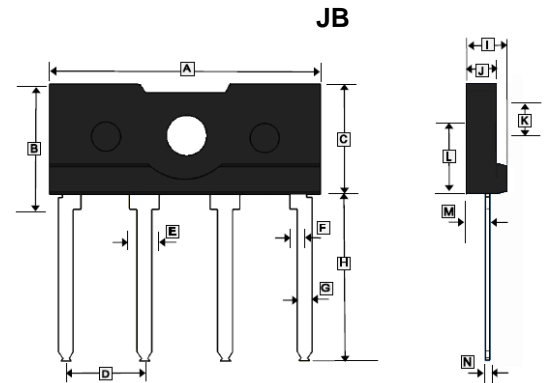
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- $I_o$  : 6A
- $V_{RRM}$  : 50~1000V
- 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	24.7	25.3	H	14.6	15.2
B	11.4	12.0	I	3.9	4.5
C	10.0	10.6	J	2.9	3.9
D	7.3	7.7	K	3.1	3.4
E	1.2	1.4	L	5.4	6.0
F	1.35	1.55	M	2.0	2.6
G	0.9	1.1	N	0.4	0.6

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

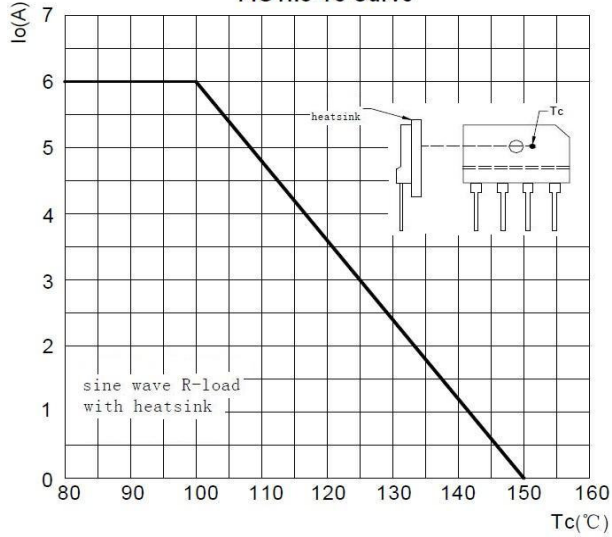
Parameter	Symbol	Part Number							Unit
		D6JB 05	D6JB 10	D6JB 20	D6JB 40	D6JB 60	D6JB 80	D6JB 100	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Average Rectified Output Current@ 60Hz sine wave, R-load	With heatsink $T_C=100^\circ\text{C}$	6							A
	Without heatsink $T_A=25^\circ\text{C}$	2.8							
Non-repetitive Surge Forward Current@ 60Hz sine wave, 1 cycle, $T_J=25^\circ\text{C}$	$I_{FSM}$	150							A
Current Squared Time <sup>1</sup>	$I^2t$	93							A <sup>2</sup> S
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@ $I_{FM}=3\text{A}$ , pulse measurement, rating of per diode	$V_{FM}$	1.05							V
Peak Reverse Current@ $V_{RM}=V_{RRM}$ , pulse measurement, rating of per diode	$I_{RRM}$	10							$\mu\text{A}$
Thermal Resistance	Without heatsink	$R_{\theta JA}$							°C / W
	With heatsink	$R_{\theta JC}$							
Junction and Storage Temperature Range	$T_J, T_{STG}$	150, -55~150							°C

Notes :

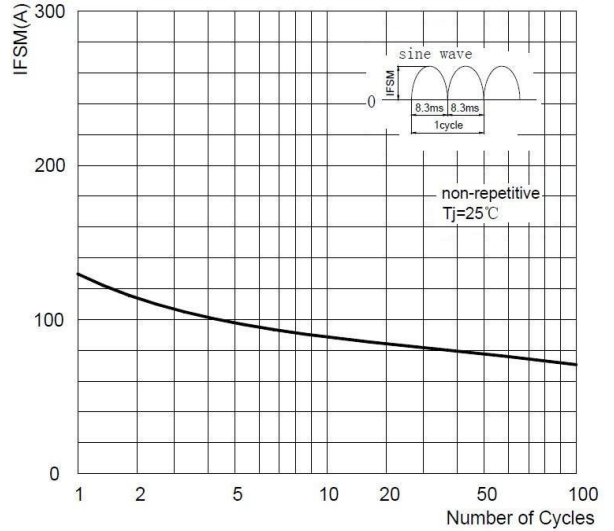
1.  $1\text{ms} \leq t < 8.3\text{ms}$ ,  $T_J=25^\circ\text{C}$ , rating of per diode.

**CHARACTERISTIC CURVES**

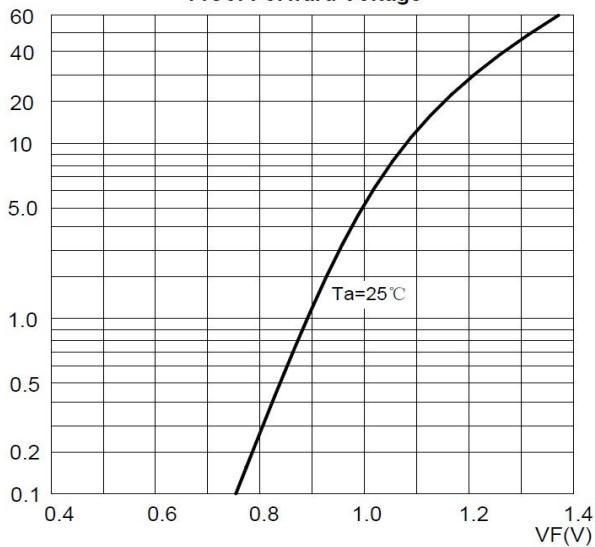
**FIG1:  $I_o$ - $T_c$  Curve**



**FIG2: Surge Forward Current Capability**



**FIG3: Forward Voltage**



**FIG4: Typical Reverse Characteristics**

