

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

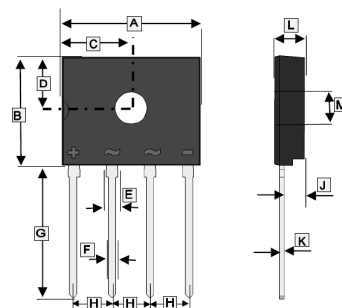
FEATURES

- I_o : 3A
- V_{RRM} : 50~1000V
- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications

D3K



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	13.3	14.3	G	13.1	13.5
B	10.3	11.3	H	3.7	3.9
C	6.4	7.4	J	2.0	2.2
D	4.5	5.5	K	0.4	0.6
E	1.05	1.45	L	2.6	3.6
F	0.60	0.85	M	3.1	3.4

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
			D3UB 05	D3UB 10	D3UB 20	D3UB 40	D3UB 60	D3UB 80	D3UB 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	Without heatsink T _A =29℃	I _O	1.2							A
	With heatsink T _c =140℃		3.0							
Surge(Non- repetitive)Forward Current @ 60Hz sine wave, 1 cycle, T _J =25℃		I _{FSM}	90							A
Current Squared Time ¹		I ² t	33							A ² 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} =1.5A, 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							μA
Thermal Resistance	Without heatsink	R _{θJA}	55							℃ / W
	With heatsink	R _{θJC}	1.5							
Junction and Storage temperature range		T _J ,T _{STG}	-55~+150							℃

Notes :

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

RATINGS AND CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

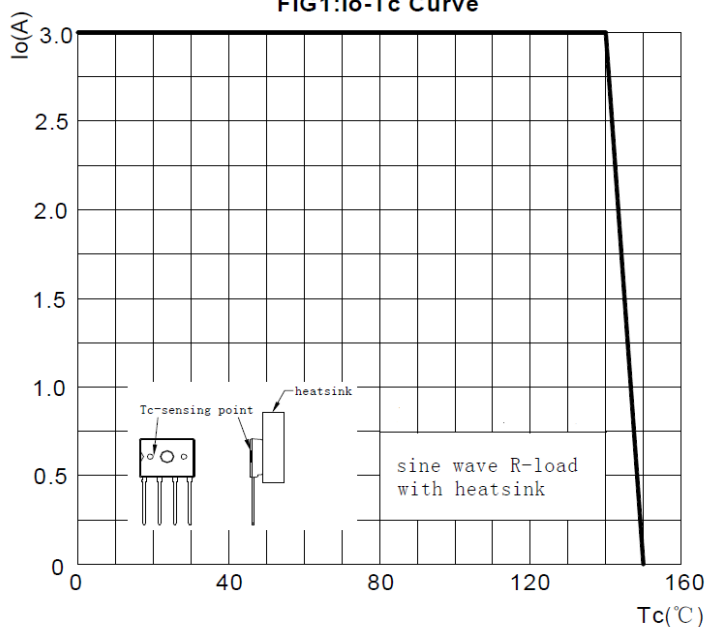


FIG2: Surge Forward Current Capability

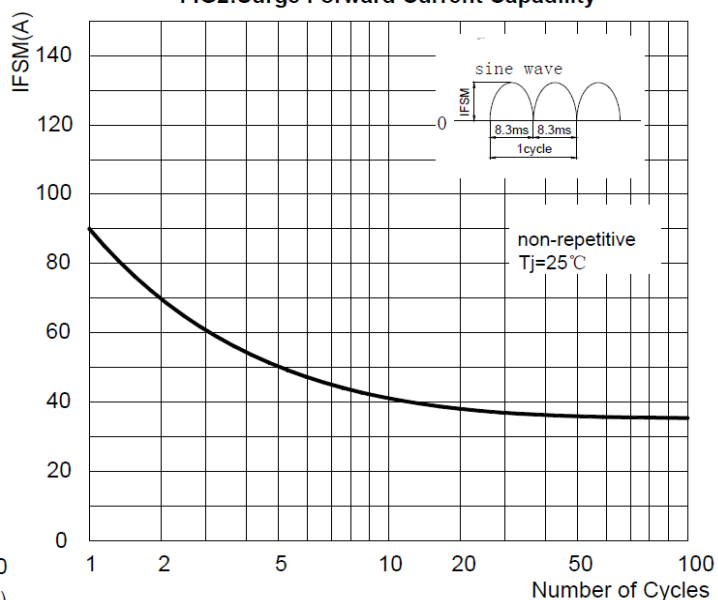


FIG3: Forward Voltage

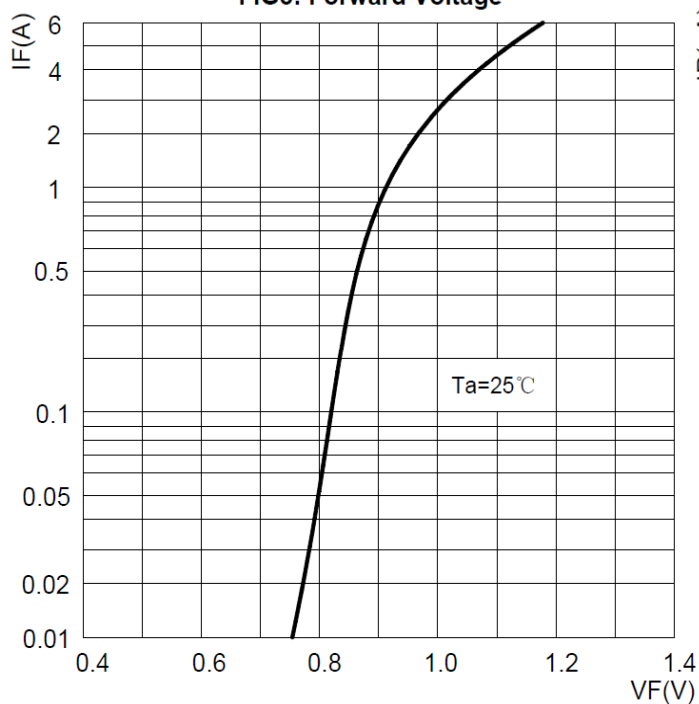


FIG4: Typical Reverse Characteristics

