

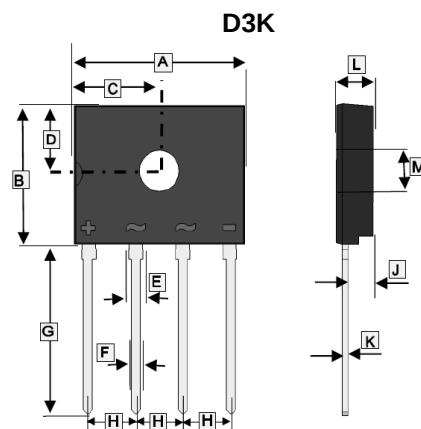
3.0Amp Glass Passivated Bridge Rectifiers

FEATURES

- I_o : 3A
- 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	13.8	14.5	G	13.1	13.5
B	10.1	10.8	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	T3BU							Unit
			01	02	03	04	06	08	10	
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 $T_A=29^{\circ}\text{C}$	I_O	1.9							A
	With heatsink $T_C=140^{\circ}\text{C}$		3.0							
Surge (Nonrepetitive) Forward Current @ 60Hz sine wave, 1 cycle, $T_J=25^{\circ}\text{C}$		I_{FSM}	90							A
Current Squared Time ¹		I^2t	33.6							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@ $I_{FM}=3\text{A}$, Pulse measurement, Rating of per diode		V_{FM}	0.98							V
Peak Reverse Current@ $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode		I_{RRM}	1							μA
Thermal Resistance	Without heatsink	$R_{\theta JA}$	17							$^{\circ}\text{C} / \text{W}$
	With heatsink	$R_{\theta JC}$	7.0							
Junction and Storage temperature range		T_J, T_{STG}	-55~+150							$^{\circ}\text{C}$

Notes :

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

RATING AND CHARACTERISTIC CURVES (T3BU01 THRU T3BU10)

Fig.1 Forward Current Derating Curve

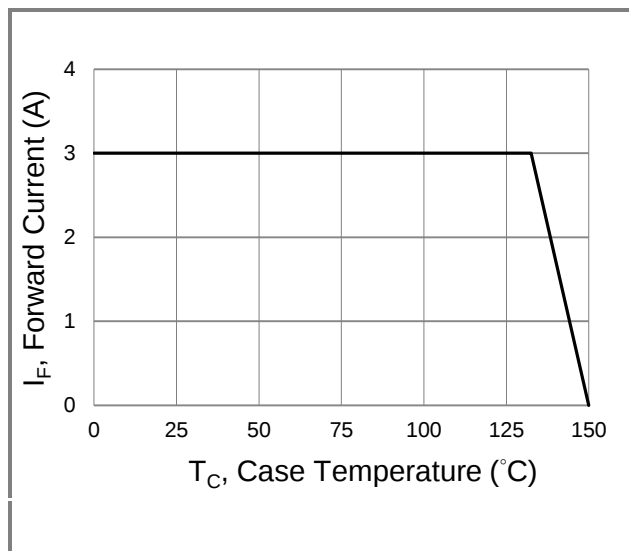


Fig.2 Typical Junction Capacitance

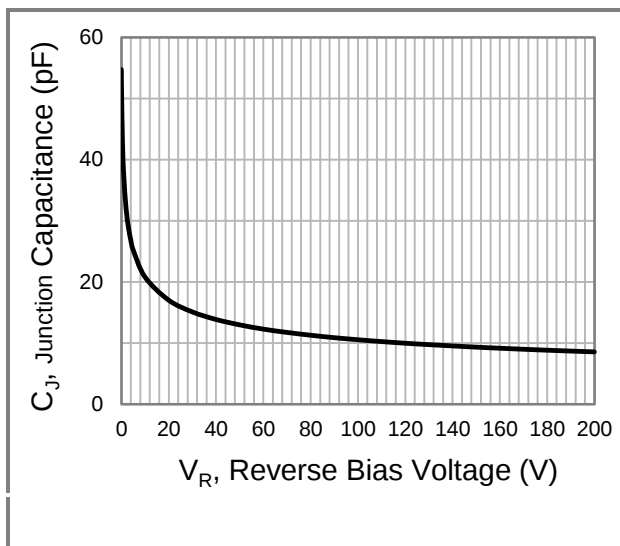


Fig.3 Typical Reverse Characteristics

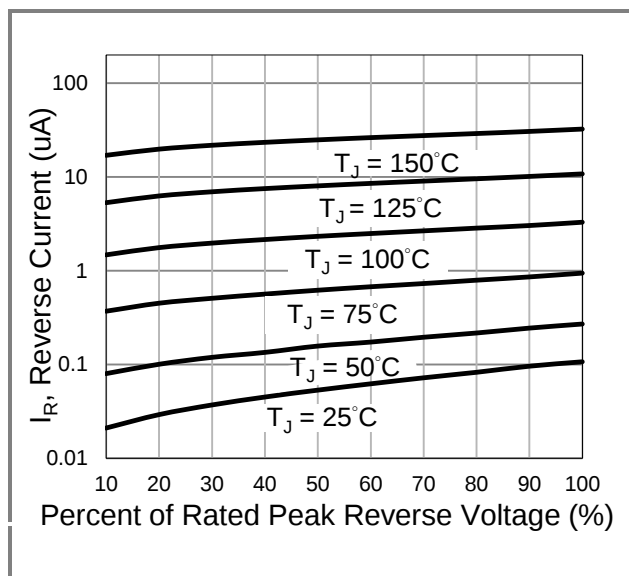


Fig.4 Typical Forward Characteristics

