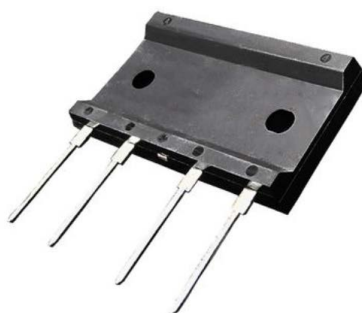


Glass Passivated Bridge Rectifiers

DXB8010



Features

- Reverse Voltage - 1000 V
- Forward Current - 80.0 A
- Compliant With RoHS Provisions
- High Forward Surge Current Capability
- High heat-conducting performance
- Thermal welding performance: 260 °C/10sec

Benefits

- Case: DXB
- Terminals: Solderable Per MIL-STD-750
- Reduced power loss and switching transistor

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	DXB8010	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	I _o	80	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	750	A
I ² t rating for fusing (1ms< t < 10ms)	I ² t	2334	A ² S
Type Forward Voltage at 25A	V _F	1.10	V
Dielectric Strength: Terminals to Case, AC 1 minute	V _{dis}	2.5	KV
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	10 500	μA
Junction to ambient, without heatsink	R _{θJA}	16	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

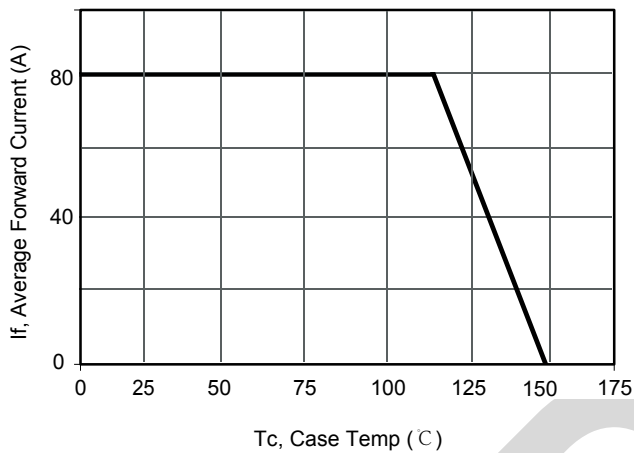


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

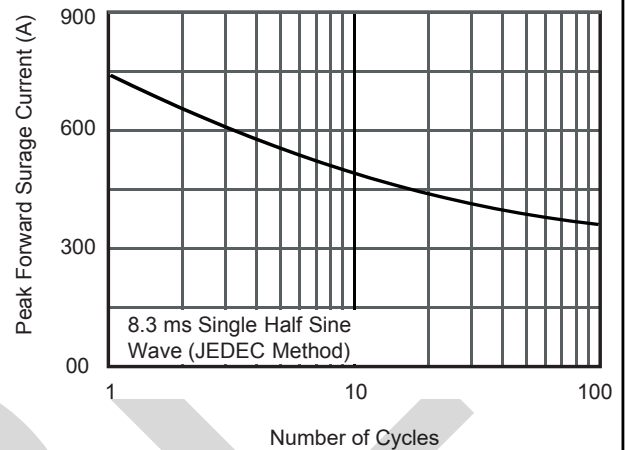


Fig.3 Typical Forward Voltage

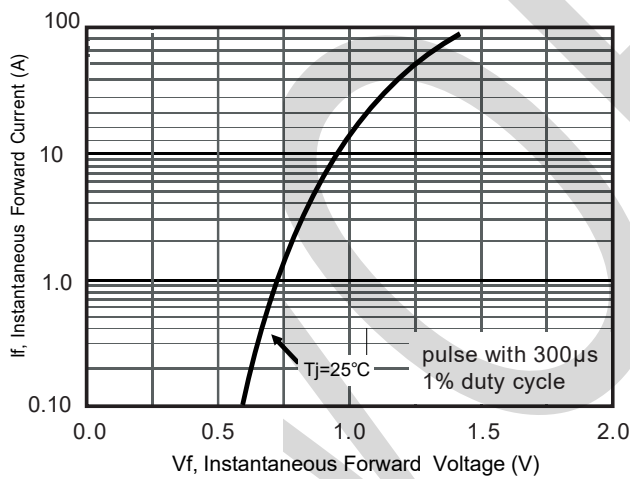
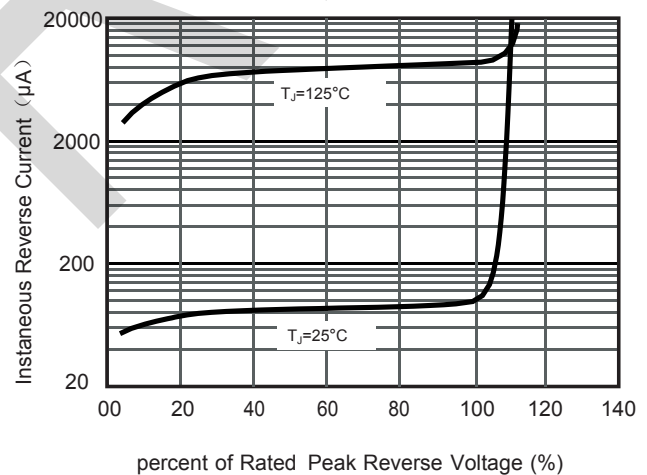
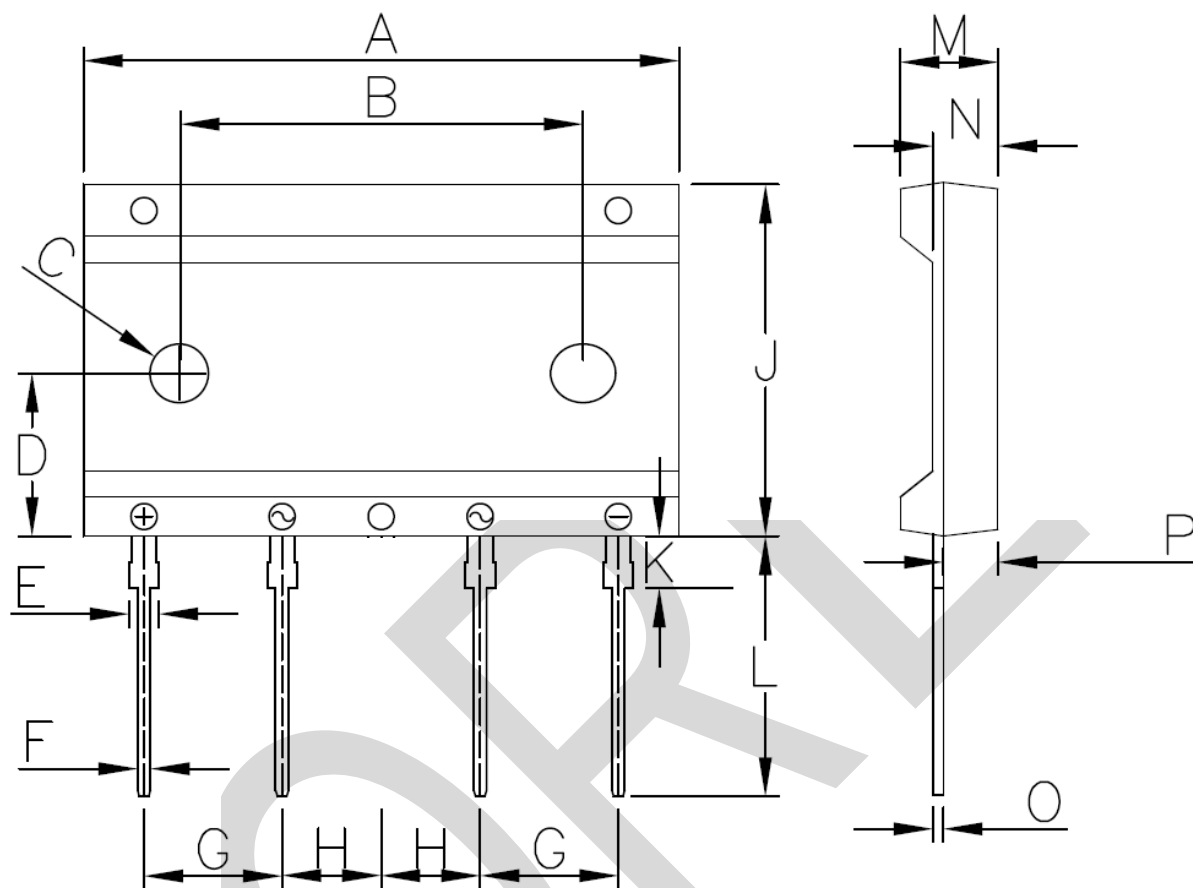


Fig.4 Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS



DXB mechanical data: unit mm(inch)

	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
max	46.1	31.1	4.8	12.8	2.5	1.3	10.9	8.0	27.5	4.2	20.5	8.4	5.9	1.0	4.8
min	45.3	30.9	4.4	12.2	2.1	0.7	10.3	7.2	26.5	3.8	19.5	7.6	5.1	0.6	4.2
max	1.81	1.22	0.19	0.51	1.3	0.10	0.43	0.32	1.09	0.17	0.81	0.33	0.24	0.04	0.19
min	1.78	1.21	0.17	0.48	1.0	0.02	0.40	0.28	1.04	0.15	0.76	0.29	0.20	0.5	0.16