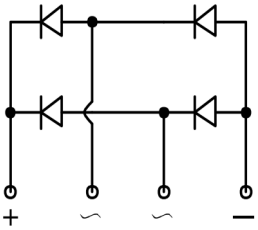
D15JB60 THRU D15JB100

Single Phase 15.0 AMP Glass Passivated Bridge Rectifier



Features

- Glass passivated die construction.
- Low forward voltage drop.
- High surge current capability.
- Plastic material-UL flammability 94V-0.

Mechanical Data

- Case:JB Molded Plastic.
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208.
- Polarity:As Marked on Case.
- Marking Information: Type Number.
- Mounting Position : Any

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	D15JB60	D15JB80	D15JB100	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}				
DC Blocking Voltage	V_{DC}				
RMS Reverse Voltage	V_{RMS}	420	560	700	V
Maximum average forward rectified current	$I_{F(AV)}$	15.0			A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	220			A
I^2t Rating for fusing (t<8.3ms)	I^2t	201			A^2s
Forward Voltage per element @IF=7.5A	VF	1.0			V
Maximum DC Reverse Current @T_A=25℃	I_R	5.0			uA
at Rated DC Blocking Voltage @T_A=125℃		100			
Typical Junction Capacitance (Note 1)	C_J	65			pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	2.0			℃/W
Storage temperature range	T_{STG}	-55 to +150			℃
Operating junction temperature range	T_J	-55 to +150			℃

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C
2. Device mounted on 35mmx35mmx1.7mm Cu Plate Heatsink.

■ Rating And Characteristic Curves

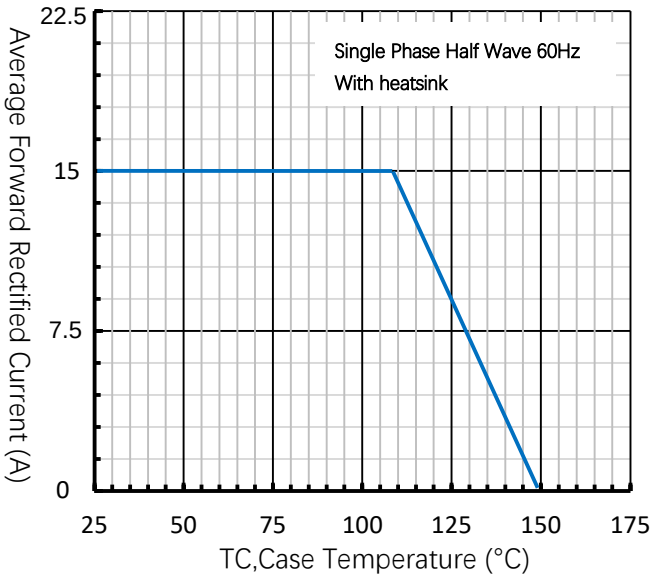


Fig.1 Forward Current Derating Curve

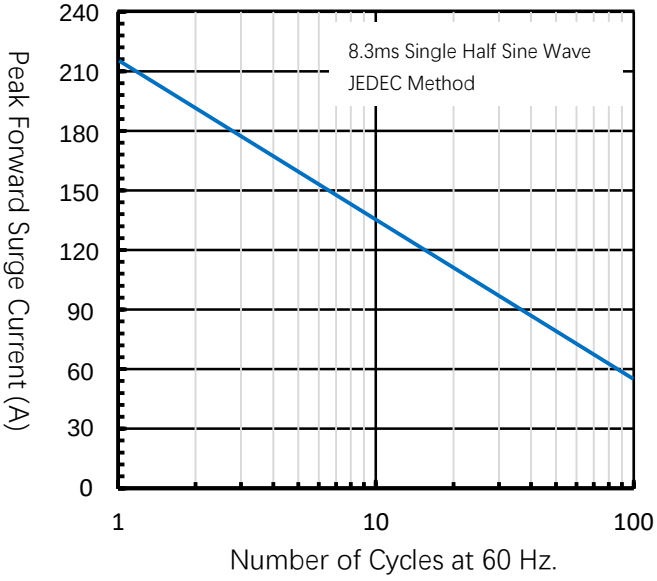


Fig.2 Forward Surge Current Capability

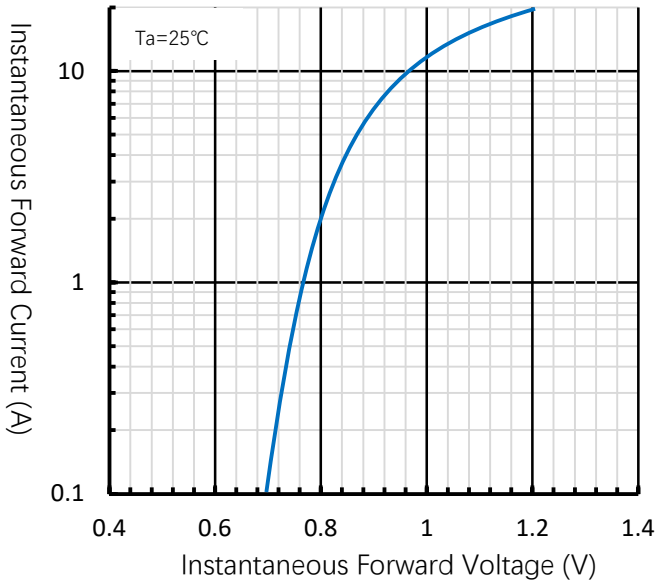


Fig. 3 Typical Forward Characteristic

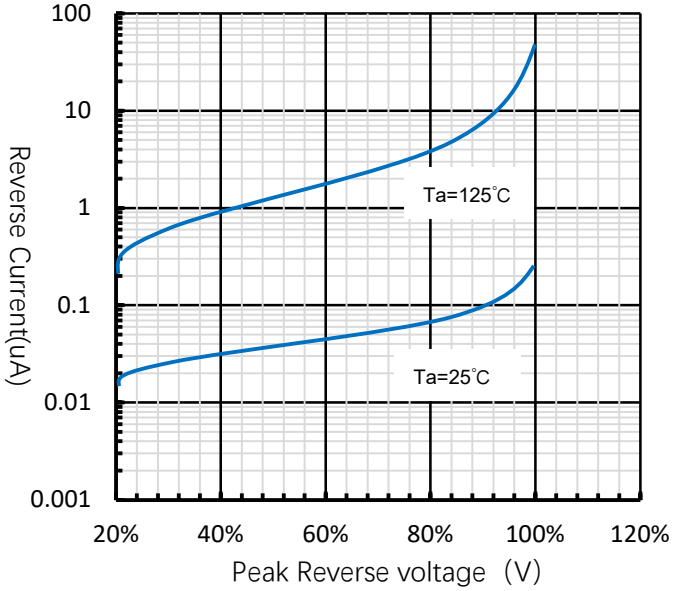


Fig. 4 Typical Reverse Characteristics

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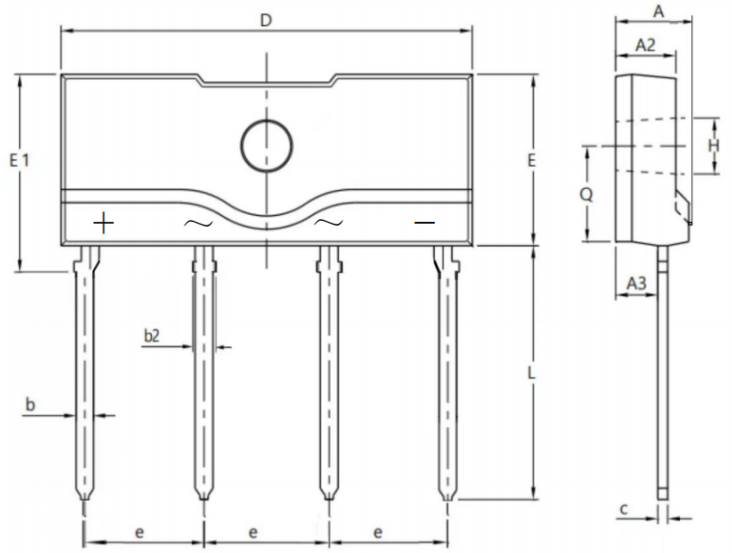
■ Outline Dimensions Dimensions in inches and (milimeters) **Package：JB**



JB		
Dim	Min	Max
A	4.10	4.70
A2	2.90	3.90
A3	2.00	2.60
b	0.90	1.10
b2	1.20	1.40
c	0.40	0.60
D	24.70	25.30
E	10.00	10.60
E1	11.40	12.00
e	7.30	7.70
H	3.10	3.40
L	14.60	15.20
Q	5.40	6.00