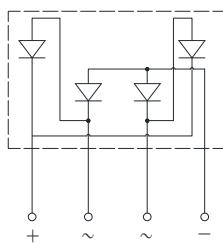
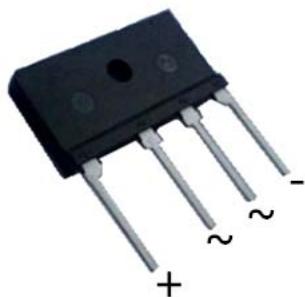


Low VF Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Low VF
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package:** JA
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	D8JAL80
Device marking code			D8JAL80
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	800
Maximum RMS Voltage	V _{RMS}	V	560
Maximum DC blocking Voltage	V _{DC}	V	800
Average Rectified Output Current @60Hz sine wave, R-load, T _c =118°C	I _O	A	8.0
Without heatsink T _a =25°C			3.2
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25°C	I _{FSM}	A	175
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			350
Current squared time @1ms≤t≤8.3ms T _j =25°C, rating of per diode	I ² t	A ² S	127
Storage temperature	T _{stg}	°C	-55 ~ +150
Junction temperature	T _j	°C	-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	V _{dis}	KV	2
Mounting torque @Recommend torque: 5kg·cm	T _{or}	kg·cm	8

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D8JAL80
Maximum instantaneous forward voltage drop per diode	V_F	V	$IFM=4.0\text{A}$	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25^\circ\text{C}$	5
			$T_j=125^\circ\text{C}$	100
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	55

■ Thermal Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	D8JAL80
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	22
	Between junction and case, With heatsink	$R_{\theta J-C}$		2

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D8JAL80	B1	Approximate 4.3	15	750	1500	Tube

■ Characteristics(Typical)

FIG1:Io-Tc Curve

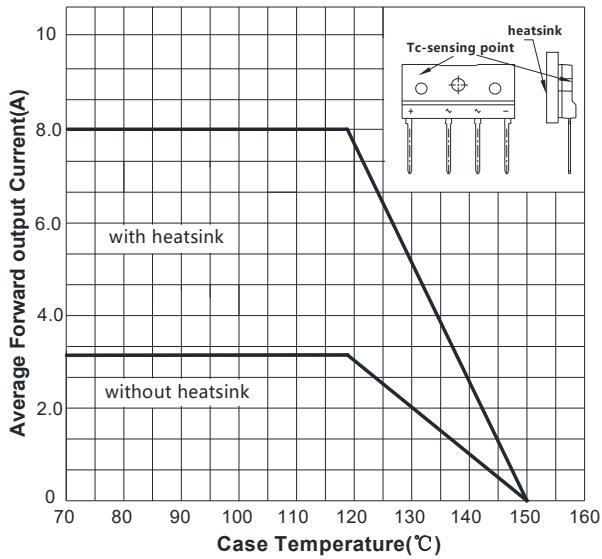
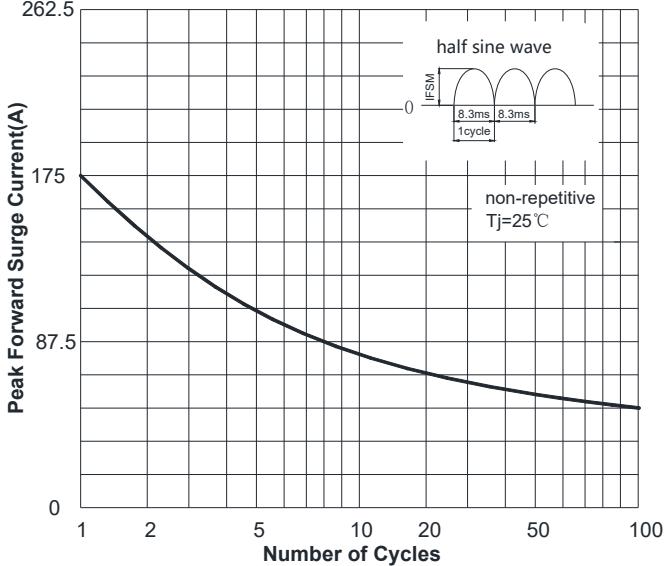
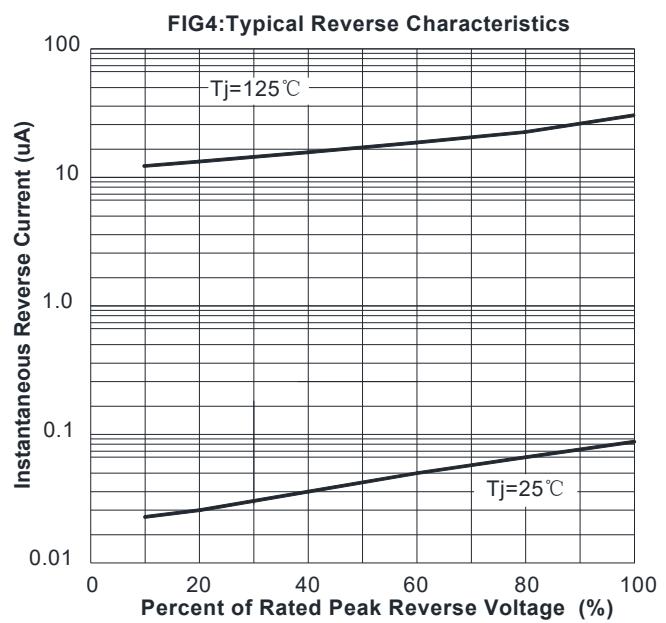
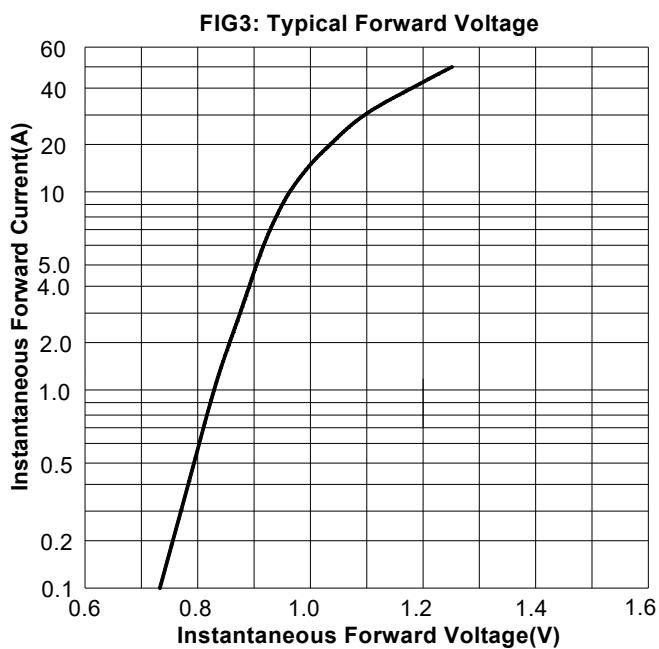
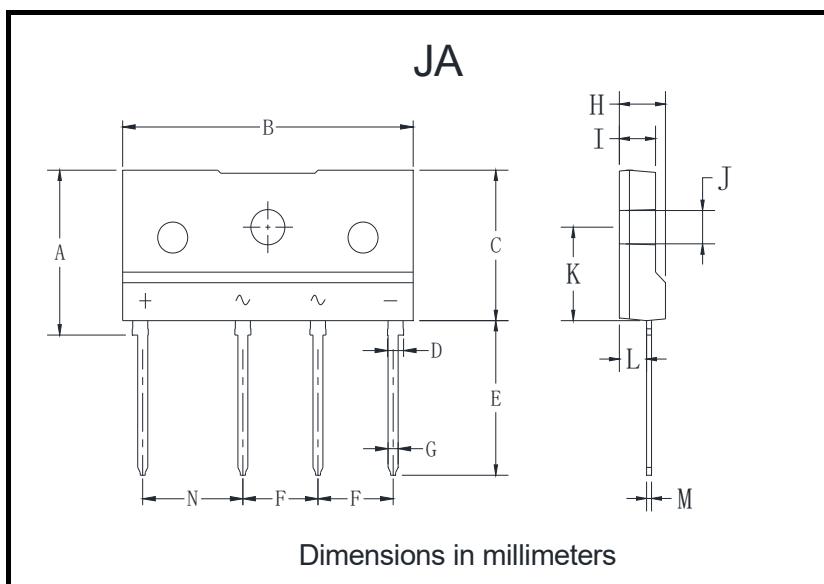


FIG2:Surge Forward Current Capability





■ Outline Dimensions



JA		
Dim	Min	Max
A	15.6	16.2
B	28.7	29.3
C	14.2	14.8
D	1.5	1.7
E	14.6	15.2
F	7.3	7.7
G	0.9	1.1
H	4.3	4.9
I	3.3	3.9
J	3.1	3.4
K	8.7	9.3
L	2.5	2.9
M	0.4	0.6
N	9.8	10.2



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