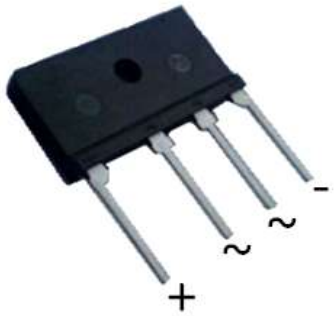
STEIFPOWER TECHNOLOGY

D15JA05 - D15JA100

Bridge Rectifiers

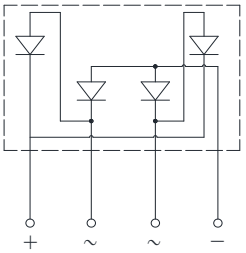
Features

- UL recognition, file #E230084
- 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
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■Maximum Ratings (T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	D15JA05	D15JA10	D15JA20	D15JA40	D15JA60	D15JA80	D15JA100
Device marking code				D15JA05	D15JA10	D15JA20	D15JA40	D15JA60	D15JA80	D15JA100
Repetitive Peak Reverse Voltage		V_{RRM}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load,	With heatsink T_C =100℃	IO	A	15.0						
	Without heatsink T_a =25℃			3.2						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T_j=25℃		I_{FSM}	A	220						
Current squared time @1ms≤t≤8.3ms Tj=25℃,rating of per diode		I^2t	A^2S	200						
Storage Temperature		T_{stg}	℃	-55 ~+150						
Junction Temperature		T_j	℃	-55 ~+150						
Dielectric strength @terminals to case, AC 1 minute		Vdis	KV	2						
Mounting torque @recommend torque：5kg • cm		Tor	kg • cm	8						

■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D15JA05	D15JA10	D15JA20	D15JA40	D15JA60	D15JA80	D15JA100
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=7.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM}	μA	V_{RM}=V_{RRM}	5						

■Thermal Characteristics （Ta=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	D15JA05	D15JA10	D15JA20	D15JA40	D15JA60	D15JA80	D15JA100
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	℃/W	22.0						
	Between junction and case, With heatsink	RθJ-C		1.5						

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D15JA05~D15JA100	B1	Approximate 4.3	15	750	1500	Tube

■ Characteristics(Typical)

FIG1:Io-Tc Curve

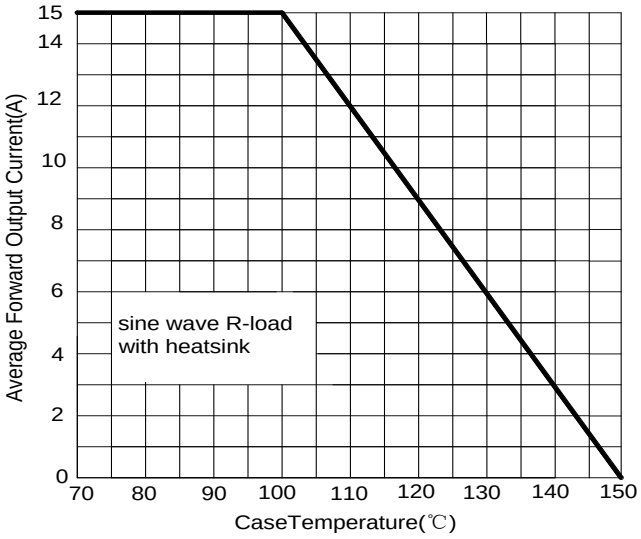


FIG2:Surge Forward Current Capability

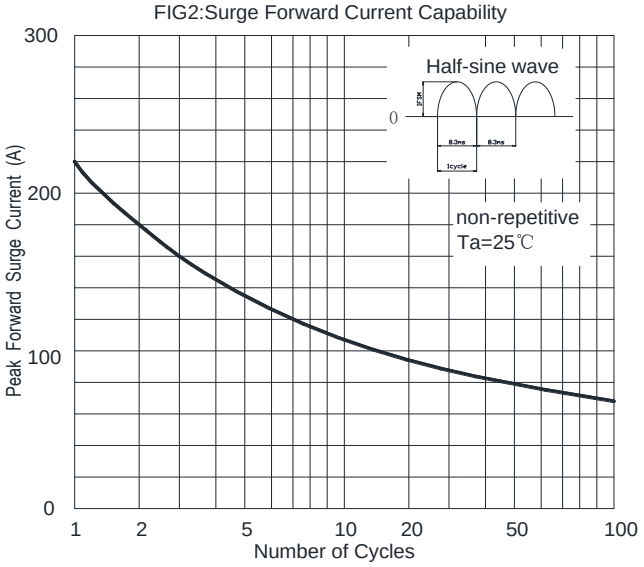


FIG3: Forward Voltage

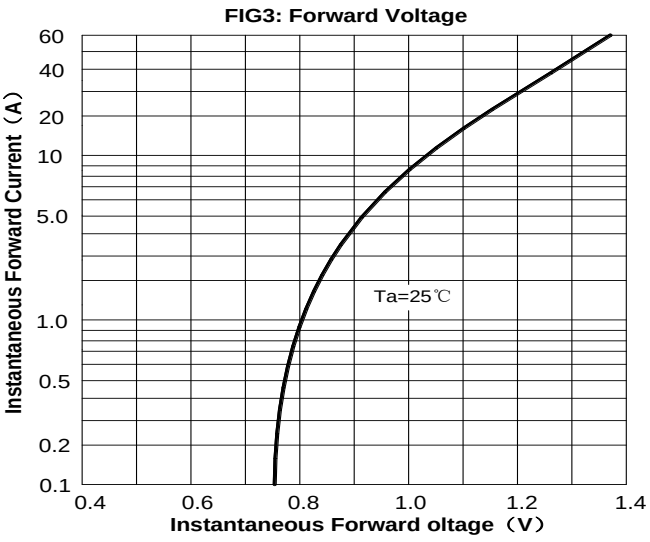
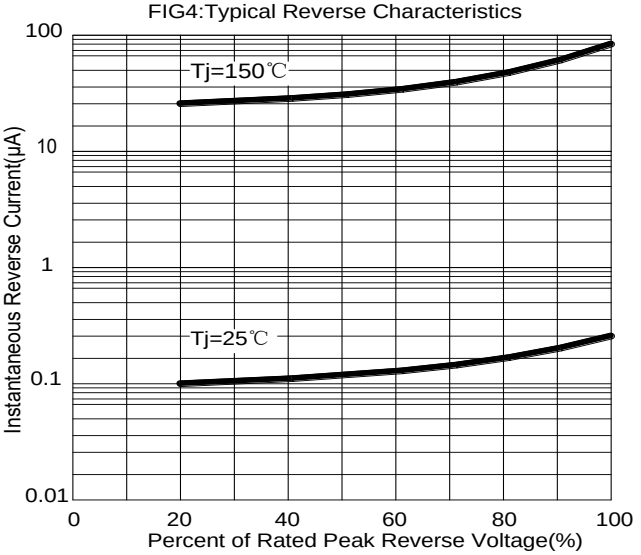
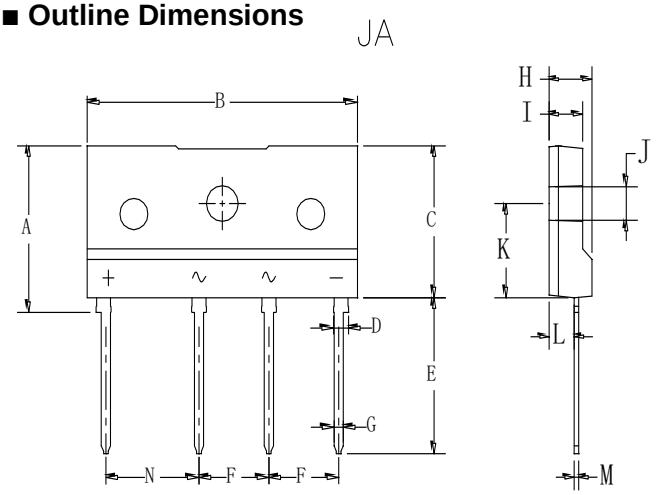


FIG4:Typical Reverse Characteristics



■ **Outline Dimensions**



Dimensions in millimeters

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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