

Bridge Rectifiers

Features

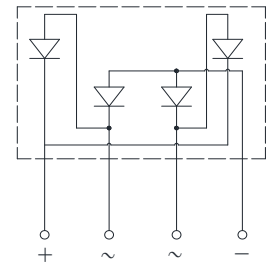
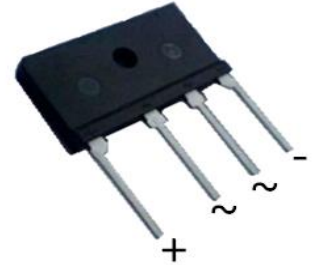
- UL recognition, file #E230084
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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

PARAMETER	SYMBOL	UNIT	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Device marking code			D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load,	With heatsink $T_C=90^\circ\text{C}$	IO	A	25.0					
	Without heatsink $T_a=25^\circ\text{C}$			3.5					
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	300						
Current squared time @1ms $\leq t \leq 8.3$ ms $T_j=25^\circ\text{C}$, rating of per diode	I^2t	A ² S	370						
Storage Temperature	Tstg	°C	-55 ~+150						
Junction Temperature	T_j	°C	-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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =12.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	5						

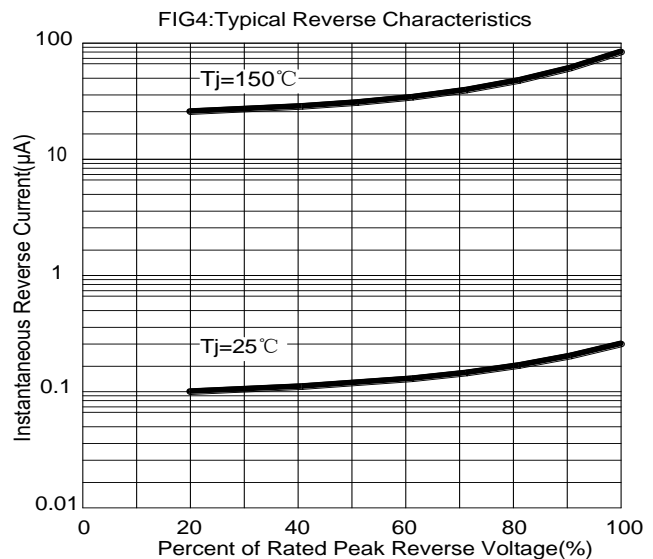
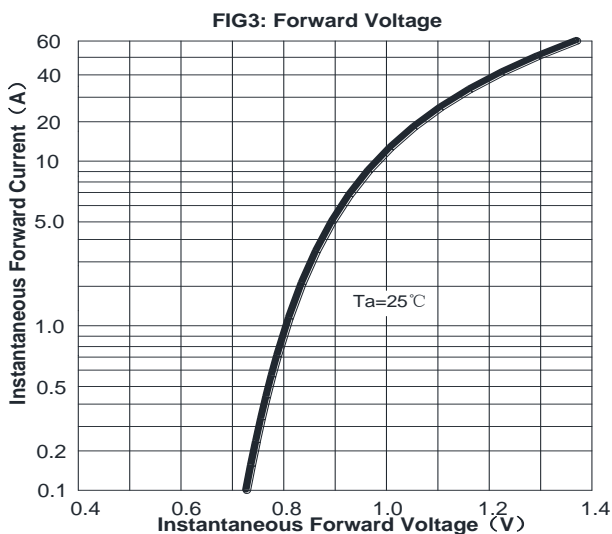
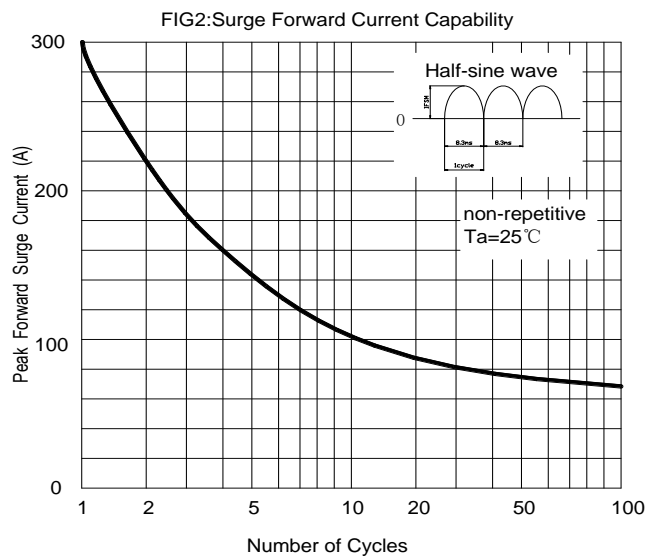
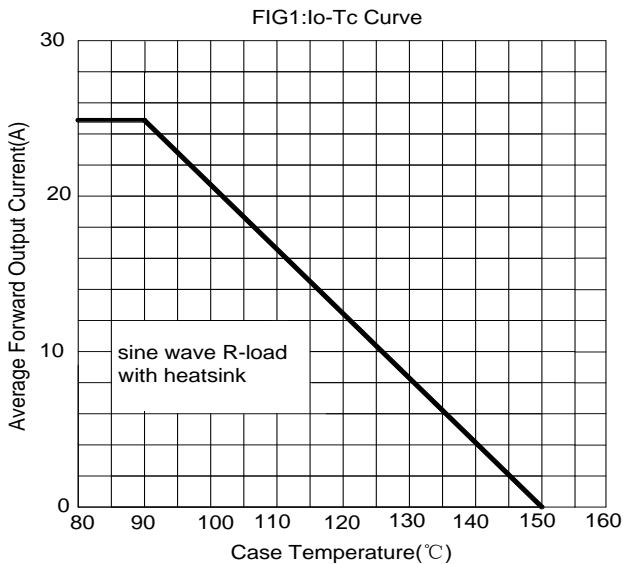
■ **Thermal Characteristics** ($T_a=25^\circ\text{C}$ Unless otherwise specified)

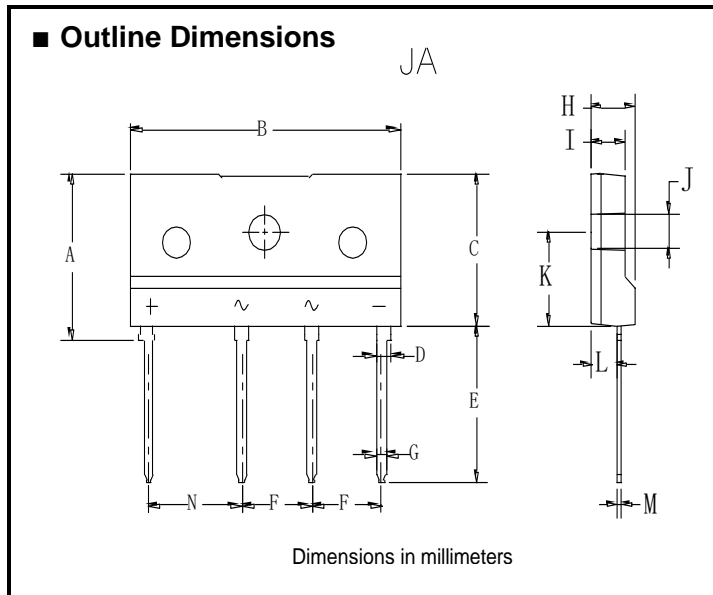
PARAMETER		SYMBOL	UNIT	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	22.0						
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.5						

■ **Ordering Information (Example)**

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D25JA05~D25JA100	B1	Approximate 4.3	15	750	1500	Tube

■ **Characteristics(Typical)**





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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