

Bridge Rectifiers

Features

- UL recognition, file #E313149
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.



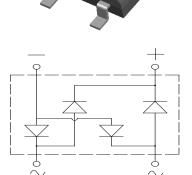
• Package: DBLS

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

PARAMETER		SYMBOL	UNIT	DBL101S	DBL102S	DBL103S	DBL104S	DBL105S	DBL106S	DBL107S
Device marking code				DBL101S	DBL102S	DBL103S	DBL104S	DBL105S	DBL106S	DBL107S
Repetitive peak reverse voltage		V_{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Ta=40°C	On glass-epoxi substrate	Ю	Α	1.0						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25℃		IFSM	Α	30						
Current squared time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode		l ² t	A ² s	3.7						
Storage temperature		Tstg	$^{\circ}$	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-55 ~+150						

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

==100ti 10ti Gilatato ilotto (1a 20 0 cinetto dilettico operator)										
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DBL101S	DBL102S	DBL103S	DBL104S	DBL105S	DBL106S	DBL107S
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=0.5A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	V _{RM} =V _{RRM} 5							



DBL101S - DBL107S

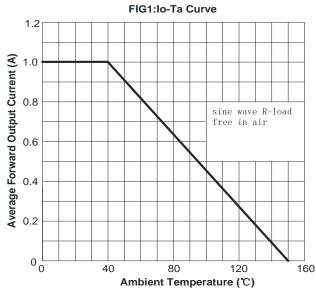
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

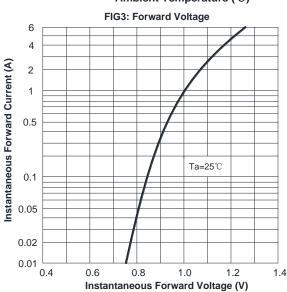
F	PARAMETER		UNIT	DBL101S	DBL102S	DBL103S	DBL104S	DBL105S	DBL106S	DBL107S
Thermal Resistance	Between junction and ambient, On glass-epoxi substrate	RøJ-A	°CM	68.0						
Resistance	Between junction and lead ReJ-L			15.0						

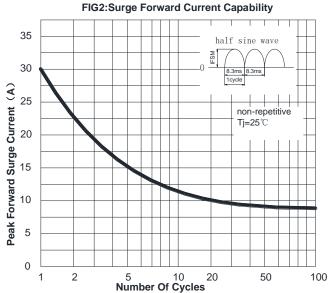
■Ordering Information (Example)

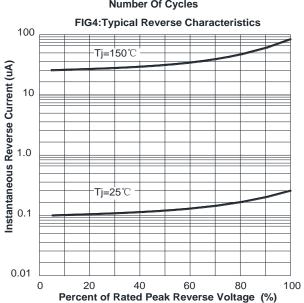
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DBL101S~DBL107S	B1	Approximate 0.32	50	5000	20000	TUBE
DBL101S~DBL107S	F1	Approximate 0.32	1500	3000	21000	REEL

■ Characteristics (Typical)



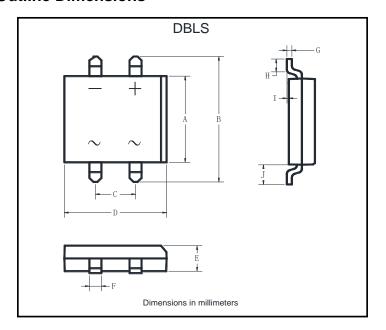






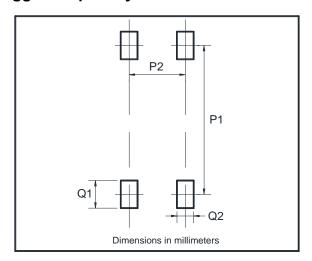


■ Outline Dimensions

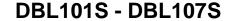


DBLS					
Dim	Min	Max			
Α	6.20	6.50			
В	9.60	10.30			
С	5.00	5.20			
D	8.13	8.51			
Е	2.35	2.45			
F	1.02	1.2			
G	0.22	0.33			
Н	1.02	1.53			
I	0	0.30			
J	1.80	2.10			

■ Suggested pad layout



Dim	Min
P1	8.73
P2	5.12
Q1	2.22
Q2	1.2





Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Steifpower Technology products best suited to the customer's applications, they do not convey any license under any intellectual property rights, or any other rights, belonging to Steifpower Technology or third party. Steifpower Technology assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials. All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Steifpower Technology without notice due to product improvements or other reasons.

It is therefore recommended that customers contact Steifpower Technology or unauthorized Steifpower Technology for the latest product information before purchasing a productlisted herein.

The information described here may containtechnical inaccuracies or typographicalerrors.

Steifpower Technology assumes no responsibility for any damage, liability, or other loss rising from theseinaccuracies or errors.

Please also pay attention to information published by Steifpower Technologyby various means including our website home page (http://www.steifpower.com).

When using any or all of the information contained in these materials, including product data diagrams, charts, programs, and algorithms, please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products.

Steifpower Technology assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Steifpower Technology is necessary to reprint or reproduce in whole or in part these materials.

Please contact Steifpower Technology or an authorized distributor for further details on these materials or the products contained herein.