

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: DBS

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free

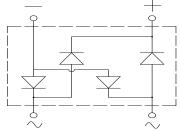
• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body







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

PARAMETER		SYMBOL	UNIT	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
Device marking code				DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
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) A 1.0		1					
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C		IFSM	А	30						
Current squared time @1ms≤t≤8.3ms Tj=25°C, 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)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	$V_{RM} = V_{RRM}$	5						



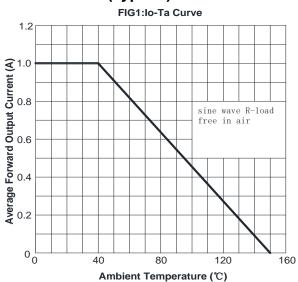
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

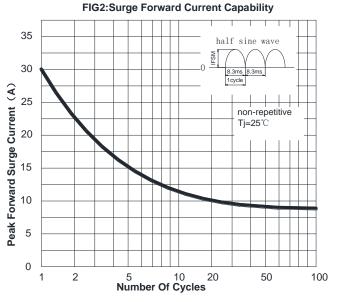
PARAMETER		SYMBOL	UNIT	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
Thermal Resistance	Between junction and ambient, On glass-epoxi substrate	RøJ-A	°CM	68.0						
	Between junction and lead	RθJ-L		15.0						

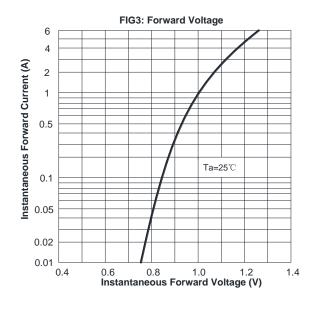
■Ordering Information (Example)

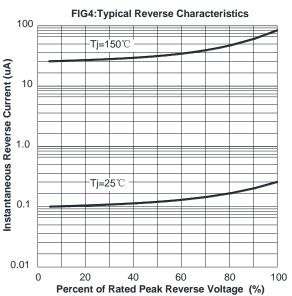
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DB101~DB107S	B1	Approximate 0.34	50	5000	20000	TUBE
DB101~DB107S	F1	Approximate 0.34	1500	3000	21000	REEL

■ Characteristics(Typical)





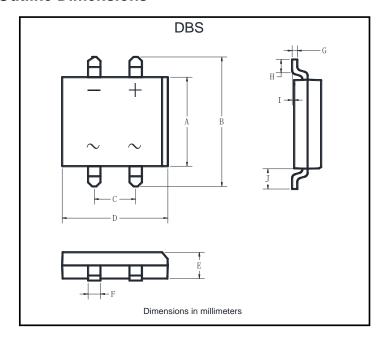






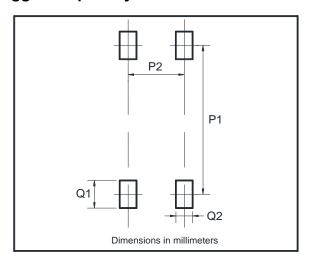
DB101S THRU DB107S

■ Outline Dimensions



DBS				
Dim	Min	Max		
Α	6.20	6.50		
В	9.60	10.30		
С	5.00	5.20		
D	8.13	8.51		
Е	2.80	3.30		
F	1.02	1.2		
G	0.22	0.33		
Н	1.02	1.53		
I	0.076	0.33		
J	1.80	2.10		

■ Suggested pad layout



Dim	Min
P1	8.73
P2	5.12
Q1	2.22
Q2	1.2



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