



Bridge Rectifiers

Features

- UL recognition, file #E313149
- Glass passivated chip junction
- 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.

Mechanical Data

- 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	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load, Tc=134°C	IO	А	1.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃		A	30							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	IFSM		60							
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l²t	A²s	3.7							
Storage temperature	Tstg	°C	-55 ~ +150							
Junction temperature	Tj	°	-55 ~ +150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage	IR		Тј =25°С	Tj =25℃ 5						
per diode	ייג	μA	Tj =125℃	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	nd Applied Reverse 1		12				



DB101S THRU DB107S

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

PARAMETER	SYMBOL	UNIT	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
	RθJ-A	°C/W	40.0						
Typical Thermal Resistance	RθJ-L		15.0						
	Røj-C					8.0			

Note: Device mounted on P.C.B with 35mm*25mm*1.7mm

Ordering Information (Example)

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PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
DB101S ~ DB107S	B1	Approximate 0.34	50	5000	20000	TUBE	
DB101S ~ DB107S	F1	Approximate 0.34	1500	3000	21000	REEL	

Characteristics(Typical)





Outline Dimensions



DBS				
Dim	Min	Max		
А	6.20	6.50		
В	9.60	10.30		
С	5.00	5.20		
D	8.13	8.51		
E	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



DB101S THRU DB107S

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