

Bridge Rectifiers

Features

- UL recognition, file #E313149
- 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 SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

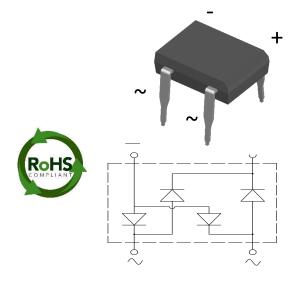
Mechanical Data

• Package: DBL

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	DBL101	DBL102	DBL103	DBL104	DBL105	DBL106	DBL107
Device marking code			DBL101	DBL102	DBL103	DBL104	DBL105	DBL106	DBL107
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	Ю	А	1.0						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	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	T _{Stg}	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DBL101	DBL102	DBL103	DBL104	DBL105	DBL106	DBL107
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 @ VRM=VRRM	IRRM	μA	V _{RM} =V _{RRM}	5						



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

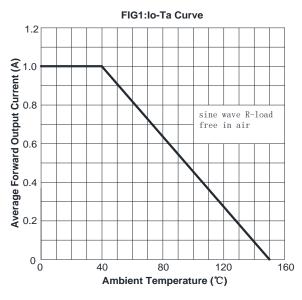
PARAMETER	SYMBOL	UNIT	DBL101	DBL102	DBL103	DBL104	DBL105	DBL106	DBL107
Thermal Decistors	RθJ-A(1)	°CW	68.0						
Thermal Resistance	R ₀ J-L	C/VV	15.0						
Note									

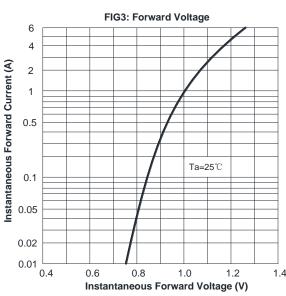
(1) Thermal resistance from Between junction and ambient, On glass-epoxi substrate.

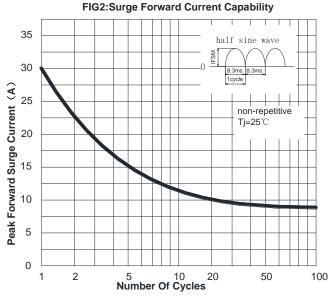
■Ordering Information (Example)

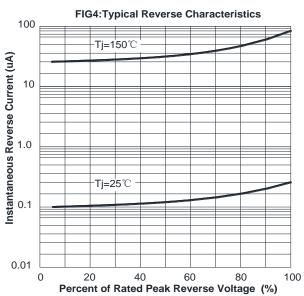
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DBL101~DBL107	B1	Approximate 0.37	50	2500	10000	Tube

■ Characteristics (Typical)



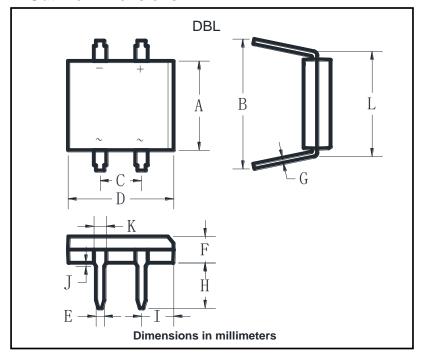








■ Outline Dimensions



DBL						
Dim	Min	Max				
А	6.20	6.50				
В	7.60	8.90				
С	5.00	5.20				
D	8.13	8.51				
Е	0.46	0.58				
F	2.35	2.45				
G	0.22	0.33				
Н	3.81	4.69				
I	1.39	1.90				
J	1.27	2.03				
K	0.89	1.14				
L	7.24	8.00				

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