

Features

- UL recognition, file #E313149
- Glass passivated chip junction
- 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 (T_a=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	
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	Α	1.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFOM	Δ.	30							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	Α	60							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A^2s	3.7							
Storage temperature	T _{stg}	°C	-55 ~ + 150							
Junction temperature	Tj	°C	-55 ~ + 150							

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

Zioonioni oilanatorionio (la zo e elimente elimente elimente)											
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DBL101	DBL102	DBL103	DBL104	DBL105	DBL106	DBL107	
Maximum instantaneous forward voltage drop per diode	VF	>	IFM=0.5A	1.0							
Maximum DC reverse current at rated DC blocking voltage	lR	μA	T _j =25°C	5							
per diode	ır.	μΑ	T _j =125°C	100							
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	12							

DBL101 THRU DBL107

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

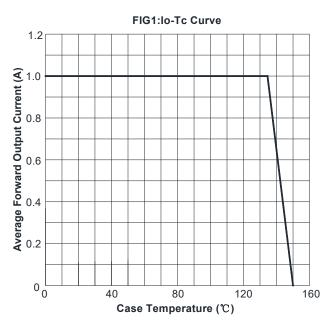
PARAMETER	SYMBOL	UNIT	DBL101	DBL102	DBL103	DBL104	DBL105	DBL106	DBL107
R ₀ J-A				40.0					
Typical Thermal Resistance	RøJ-L	°C/W	°C/W 15.0						
	R ₀ J-C		8.0						

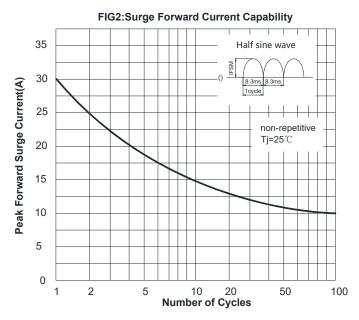
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm

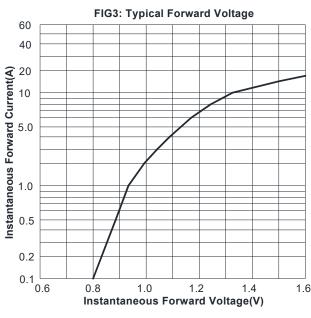
■Ordering Information (Example)

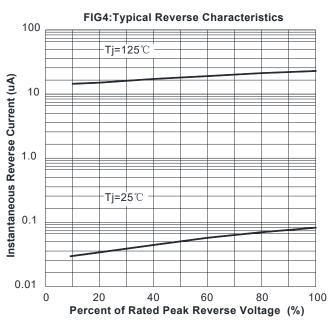
PREFERED P/N	PACKING UNIT WEIG		MINIIMUM INNER BOX PACKAGE(pcs) QUANTITY(pcs)		OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DBL101 ~ DBL107	B1	Approximate 0.37	50	2500	10000	Tube

■ Characteristics (Typical)





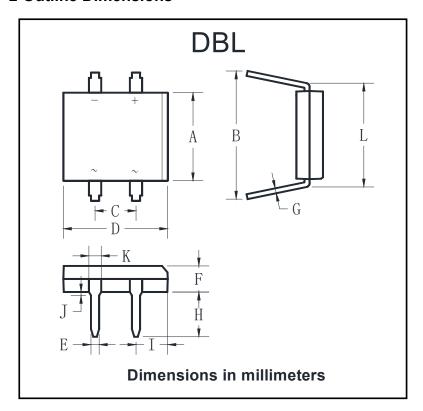






DBL101 THRU DBL107

■ Outline Dimensions



	DBL						
Dim	Min	Max					
Α	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					



DBL101 THRU DBL107

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangiie.com, or consult your nearest Yangjie's sales office for further assistance.