

# **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**

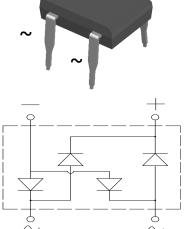
• Package: DB

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

• 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)

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PARAMETER	SYMBOL	UNIT	DB151	DB152	DB153	DB154	DB155	DB156	DB157
Device marking code			DB151	DB152	DB153	DB154	DB155	DB156	DB157
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	IO	А	1.5						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25 °C	IFSM	Α	60						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l <sup>2</sup> t	A <sup>2</sup> s	15						
Storage temperature	T <sub>stg</sub>	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~+150						

### ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DB151	DB152	DB153	DB154	DB155	DB156	DB157
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.7A		1.00					
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	$V_{RM} = V_{RRM}$	5						



### **Thermal Characteristics** (T<sub>a</sub>=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	DB151	DB152	DB153	DB154	DB155	DB156	DB157
The man of Decistors on	RθJ-A(1)	°C/W	68.0						
Thermal Resistance	RøJ-L	C/VV	15.0						

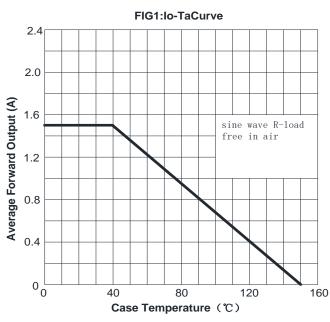
#### Note

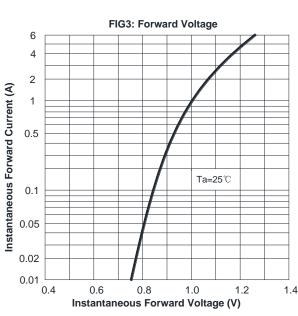
(1)Thermal resistance from Between junction and ambient, On glass-epoxi substrate.

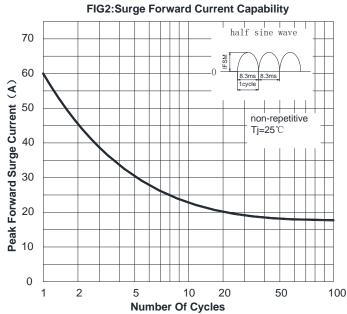
**■**Ordering Information (Example)

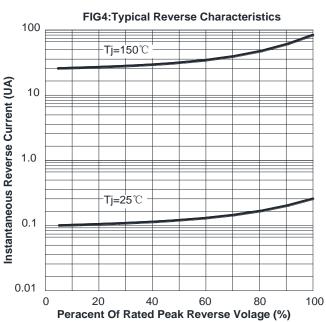
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DB151~DB157	B1	Approximate 0.39	50	2500	10000	Tube

## **■** Characteristics (Typical)



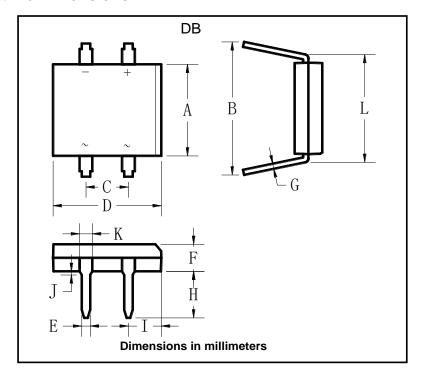








#### ■ Outline Dimensions



DB						
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	2.80	3.30				
G	0.22	0.33				
Н	3.81	4.69				
ļ	1.39	1.90				
J	1.27	2.03				
K	0.89	1.14				
L	7.24	8.00				

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