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E502650

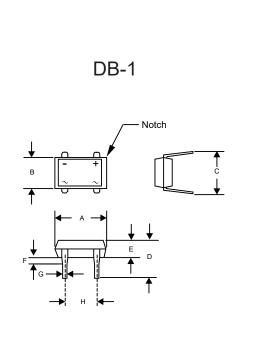
Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Forward Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Demonster	0h.e.l	Value								
Parameter	Symbol	DB 101	DB 102	DB 103	DB 104	DB 105	DB 106	DB 107	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}									
Working Peak Reverse Voltage	V_{RWM}	50 100	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}									
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Average Rectified Forward Current @ $T_A=40^{\circ}C$	I _{F(AV)}	1				А				
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	30								
Non-Repetitive Peak Surge Current @ 1ms Square Wave	60				A					
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735				A ² s				

1 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS

MIN

8.05

6.20

7.60

6.01

2.60

0.41

MM

MAX

8.51

6.50

8.90

7.60

3.30

0.56

5.20

1.50

NOTE

Тур

Тур

INCHES

0.245 0.255

0.300 0.350

0.236 0.299

0.102 0.130

0.060

0.016 0.022

0.195 0.205 5.00

MAX

0.335

MIN

0.316

DIM

A

В

С

D

Е

F

G

Н

Marking Code

Part Number	Marking Code
DB101	DB101
DB102	DB102
DB103	DB103
DB104	DB104
DB105	DB105
DB106	DB106
DB107	DB107

Internal Structure

Simplified Outline	Graphic Symbol	
~ ~	K = Marking Code	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		40		°C/W

Note:

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

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =0.5A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	μA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		12		pF



Curve Characteristics

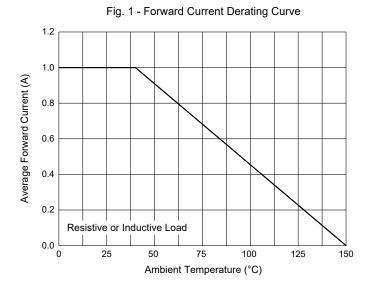
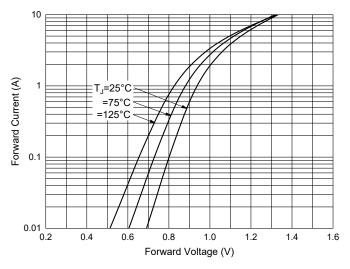
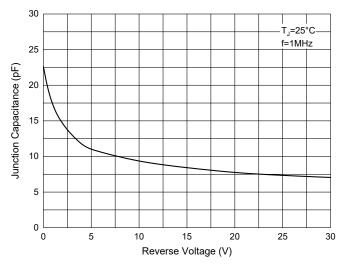


Fig. 3 - Typical Forward Characteristics







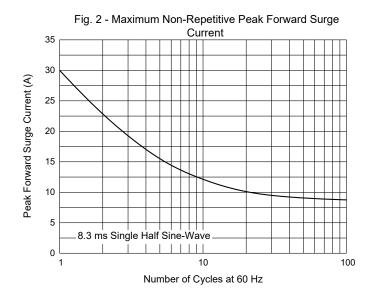
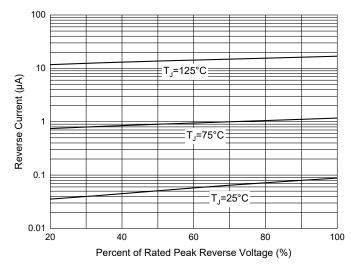


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing				
Part Number-BP	Bulk:50pcs/Tube,2500pcs/Box,10Kpcs/Carton				

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