

FL 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)

	Symbol	Value							
Parameter		DB 201	DB 202	DB 203	DB 204	DB 205	DB 206	DB 207	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	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	٧
Average Rectified Forward Current @ T _A =40°C	I _{F(AV)}	2			Α				
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{ESM}				60				А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	'FSM	120						A .	
Current Squared Time @1ms≤t≤8.3ms	l ² t	15		A ² s					

Marking Code

Part Number	Marking Code
DB201	DB201
DB202	DB202
DB203	DB203
DB204	DB204
DB205	DB205
DB206	DB206
DB207	DB207

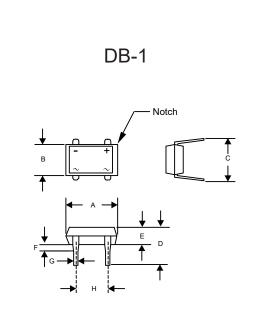
Internal Structure

Simplified Outline	Graphic Symbol
MCC. XXXXX	Code 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.

2 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		M	М	NOTE	
Dilvi	MIN	MAX	MIN MAX		NOTE	
Α	0.316	0.335	8.05	8.51		
В	0.245	0.255	6.20	6.50		
С	0.300	0.350	7.60	8.90		
D	0.236	0.299	6.01	7.60		
E	0.102	0.130	2.60	3.30		
F	0.060		1.	50	Тур	
G	0.016	0.022	0.41	0.56	Тур	
Н	0.195	0.205	5.00	5.20		



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:

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			10 500	μА
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		18		pF

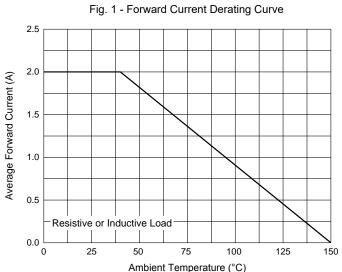
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^{1.}Device mounted on P.C.B with 35mm*25mm*1.7mm.

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current



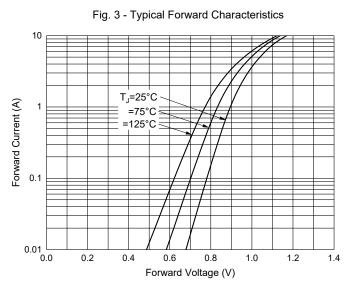
Curve Characteristics



Peak Forward Surge Current (A) 40 20 8.3 ms Single Half Sine-Wave 0 10 100 Ambient Temperature (°C) Number of Cycles at 60 Hz

80

60



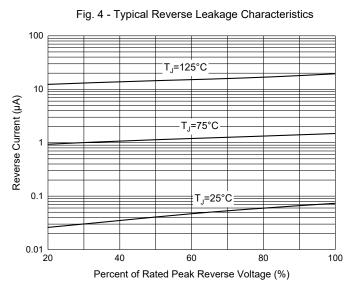
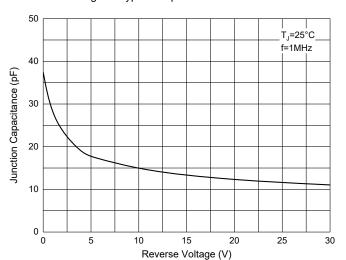


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

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

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