

71.

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)

E502650

Davamatav	0	Value						11:4	
Parameter	Symbol	DB 151	DB 152	DB 153	DB 154	DB 155	DB 156	DB 157	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	V
Average Rectified Forward Current @ T _A =40°C	I _{F(AV)}	1.5			Α				
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave					50				٨
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	100						Α	
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.4			A ² s				

Marking Code

Part Number	Marking Code
DB151	DB151
DB152	DB152
DB153	DB153
DB154	DB154
DB155	DB155
DB156	DB156
DB157	DB157

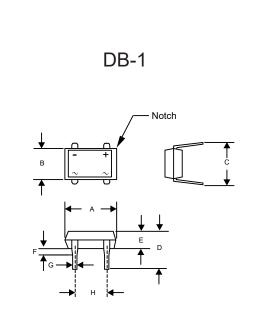
Internal Structure

Simplified Outline	Graphic Symbol			
MCC. XXXXX XXXXX = 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.

1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIE	
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 =0.7A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			10 500	μА
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		18		pF

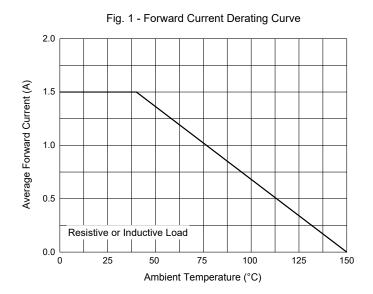
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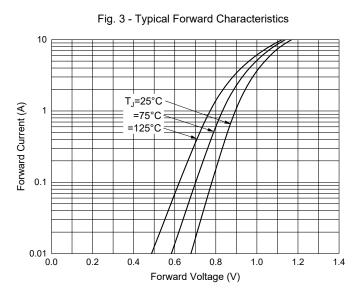
^{1.}Device mounted on P.C.B with 35mm*25mm*1.7mm.

100



Curve Characteristics





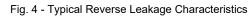


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

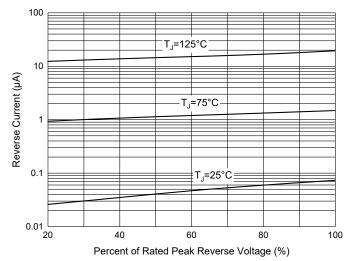
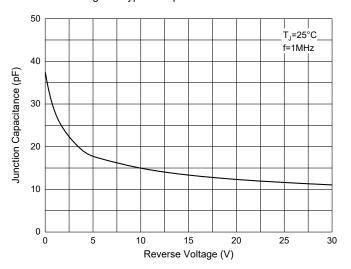


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

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

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