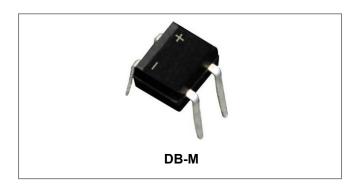






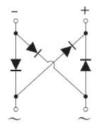
DB101 THRU DB107 SINGLE PHASE 1.0AMP GLASS PASSIVATED BRIDGE RECTIFIER



Features

- Glass passivated die construction
- Low forward voltage drop
- · High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: DB-M, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202,
 - Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings@T_A=25°C unless otherwise specified

Single Phase half wave 60Hz, resistive or inductive load. For capacitive load current derate by 20%.

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Forward Output Current (Note 1) @ T _C =100°C	I _{F(AV)}	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	45						A	
I ² t Rating for Fusing (t < 8.3ms)	l²t	8.404					A ² s		

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Electrical Characteristics:

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
Maximum Forward Voltage Drop per Bridge Element @I _F =1.0A, T _J =25°C	V _F	1.0					V		
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	5 200				μA			
Typical Junction Capacitance (Note 2)	Сл	25					pF		

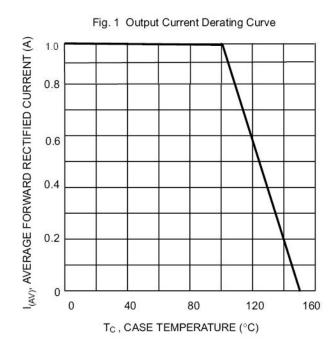
 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

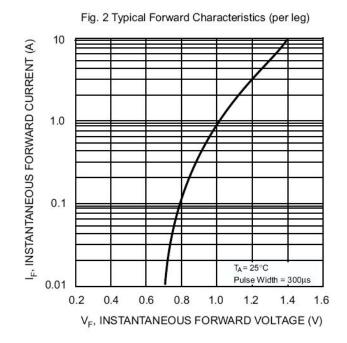
Thermal-Mechanical Specifications:

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
Typical Thermal Resistance Junction to Ambient	R _{θJA}	40					°C/W		
Typical Thermal Resistance Junction to Lead	Rejl	15						°C/W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55+150					°C		

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

Ratings and Characteristics Curves





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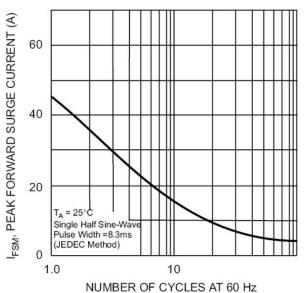
^{2.} Measured at 1.0 MHZ and applied reverse voltage of 4.0 VDC

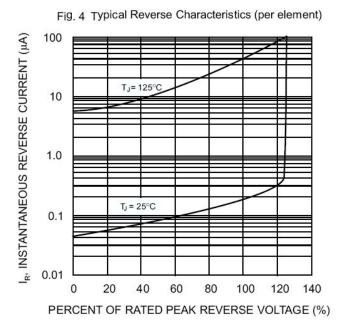




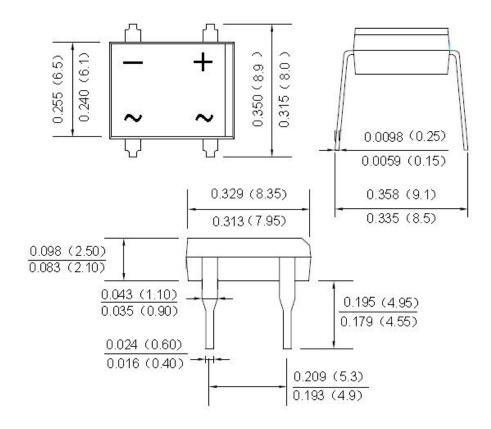


Fig. 3 Maximum Peak Forward Surge Current (per leg)





Mechanical Dimensions DB-M(Inches/Millimeters)



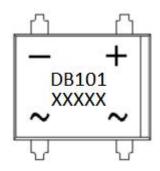
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Marking Diagram



Where XXXXX is YYWWL

DB101 = Type Number
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping			
DB101 THRU DB107	DB-M(Pb-Free)	50pcs / tube			

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

DB101 THRU DB107



Technical Data Data Sheet N1778, Rev. A





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