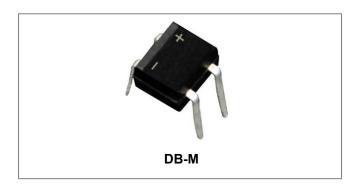






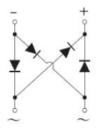
DB101 THRU DB107 SINGLE PHASE 1.0AMP GLASS PASSIVATED BRIDGE RECTIFIER



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
- "-HF" suffix is for Halogen 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
DB101-HF THRU DB107-HF Marking Code		DB101H	DB102H	DB103H	DB104H	DB105H	DB106H	DB107H	
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) @ Tc =100°C	I _{F(AV)}	1.0						А	
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)	l ² t	8.404						A ² s	

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Electrical Characteristics@T_A=25°C unless otherwise specified:

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
DB101-HF THRU DB107-HF Marking Code		DB101H	DB102H	DB103H	DB104H	DB105H	DB106H	DB107H	
Maximum Forward Voltage Drop per Bridge Element @l _F =1.0A, T _J =25°C	V _F	1.0					٧		
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				

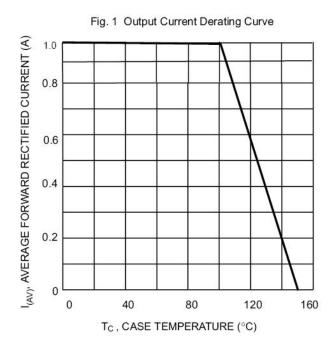
 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

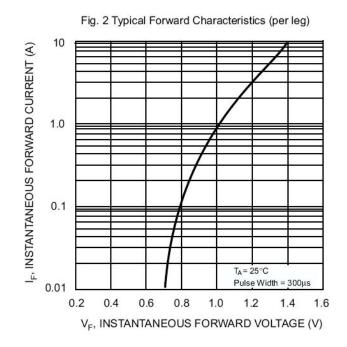
Thermal-Mechanical Specifications:

Characteristic	Symbol	DB101	DB102	DB103	DB104	DB105	DB106	DB107	Unit
DB101-HF THRU DB107-HF Marking Code		DB101H	DB102H	DB103H	DB104H	DB105H	DB106H	DB107H	
Typical Thermal Resistance Junction to Ambient	Reja	40				°C/W			
Typical Thermal Resistance Junction to Lead	R _{θJL}	_{Вель} 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. 2. Measured at 1.0 MHZ and applied reverse voltage of 4.0 VDC

Ratings and Characteristics Curves





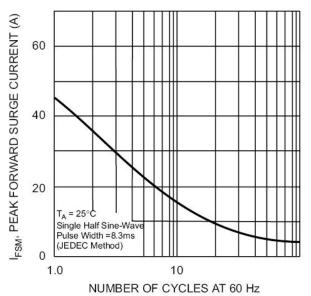
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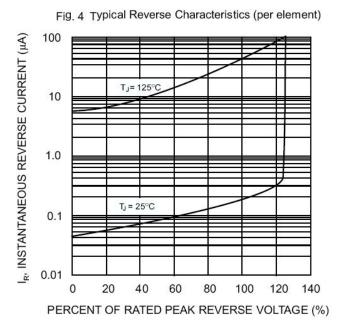




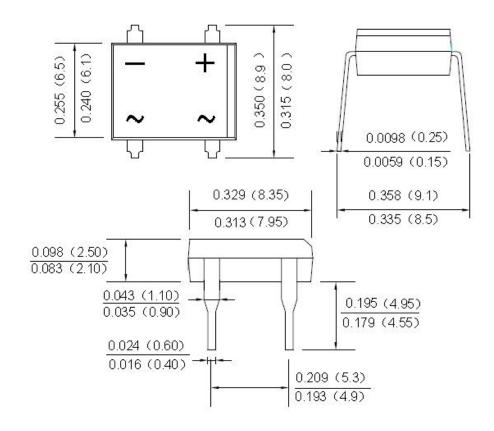


Fig. 3 Maximum Peak Forward Surge Current (per leg)





Mechanical Dimensions DB-M(Inches/Millimeters)



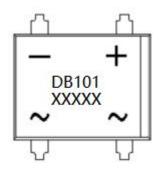
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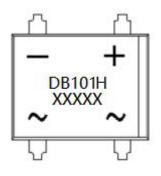






Marking Diagram





Where XXXXX is YYWWL

DB101 = Type Number
DB101H = Marking Code
YY = Year
WW = Week

L = Lot Number

Epoxy resin UL:94V-0

Cautions: Molding resin

DB101

DB101-HF

Ordering Information

Device	Package	Plating	Shipping		
DB101 THRU DB107	DB-M	Pure Sn	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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