





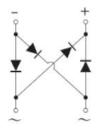
DF01 THRU DF07 SINGLE PHASE 1.0AMP GLASS PASSIVATED BRIDGE RECTIFIER



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	DF01	DF02	DF03	DF04	DF05	DF06	DF07	Units
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 _A =40°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}	50						A	
I ² t Rating for Fusing (t < 8.3ms)	l²t	8.404						A ² s	

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Electrical Characteristics:

Characteristic	Symbol	DF01	DF02	DF03	DF04	DF05	DF06	DF07	Units
Maximum Forward Voltage Drop per Bridge Element @I _F =1.0A, T _J =25°C	V _F				1.1				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	5 500			μA				
Typical Junction Capacitance (Note 2)	Сл	25			pF				

^{*} Pulse width < 300 μs, duty cycle < 2%

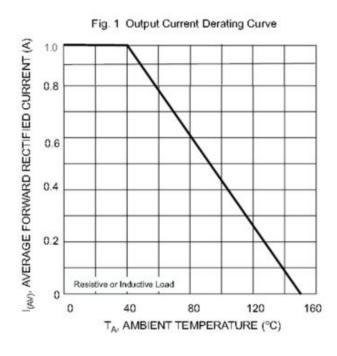
Thermal-Mechanical Specifications:

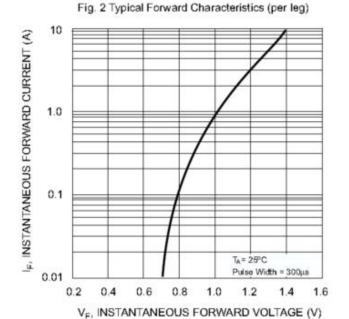
Characteristic	Symbol	DF01	DF02	DF03	DF04	DF05	DF06	DF07	Units
Typical Thermal Resistance Junction to Ambient	R _{0JA}	40						°C/W	
Typical Thermal Resistance Junction to Lead	R _{θJL} 15			°C/W					
Operating Junction and Storage Temperature Range	T_{J} , T_{STG}	-55 to + 150					°C		

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





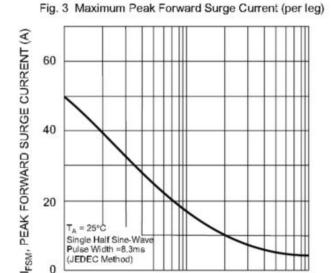
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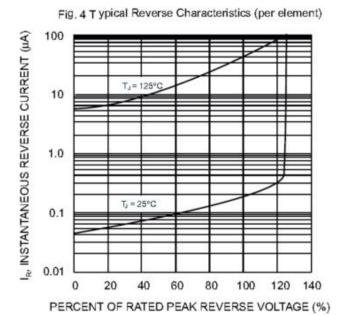


1.0



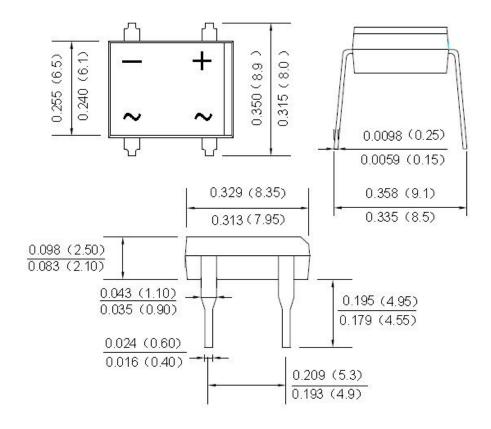






Mechanical Dimensions DB-M(Inches/Millimeters)

10 NUMBER OF CYCLES AT 60 Hz



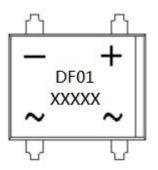
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Marking Diagram



Where XXXXX is YYWWL

DF01 = Type Number
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Plating	Shipping		
DF01 THRU DF07	DB-M(Pb-Free)	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.

DF01THRU DF07



Technical Data Data Sheet N1735, Rev. B





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