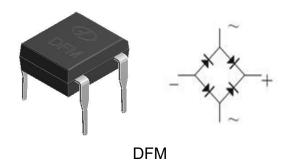




Reverse Voltage 200~1000V Forward Current 2.0A

Features

- Glass passivated Bridge Rectifiers
- Ideal for automated placement
- High surge current capability
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds



Typical Applications

• General purpose use in ac-to dc bridge full wave rectification for SMPS, lighting, adapter, charger, home appliances, office equipment, and telecommunication applications

Mechanical Data

• Case: DFM,Epoxy meets UL-94V-0 Flammablity rating

• Terminals : Matte tin plated(E3 Suffix) leads, solderable per J-STD-002B and JESD22-B102D

• Polarity : As marked on body

Maximum Ratings (TA = 25 °C unless otherwise noted)								
Parameter		Symbol	DB203	DB204	DB205	DB206	DB207	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	200	400	600	800	1000	V
Maximum average forward rectified current		I _{F(AV)}	2.0					Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	60					А
Rating for fusing (t≤8.3ms)		l ² t	15.0					A ² s
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150				°C	
Typical junction capacitance	4.0 V, 1 MHz	CJ	16 pF			pF		

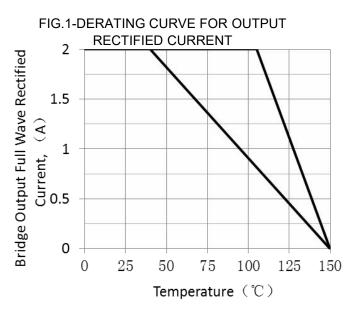
Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	DB203	DB204	DB205	DB206	DB207	Unit
Maximum instantaneous forward voltage	IF=1A		1.0					
	IF=2A	V _F		Volts				
Maximum DC reversecurrent at rated DC blocking voltage	TA=25°C		5					
	TA=125°C	I _R	50					μΑ
Typical thermal resistance ¹⁾	juntion to ambient	$R_{\theta JA}$	49					
	juntion to case	R _{eJC}	21				°C/W	

¹⁾The thermal resistance from junction to ambient, case or mount, mounted on P.C.B with 13×13mm copper pads, 2 OZ,FR4 PCB



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



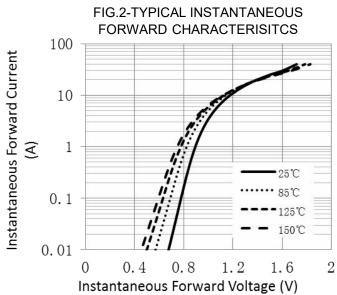


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

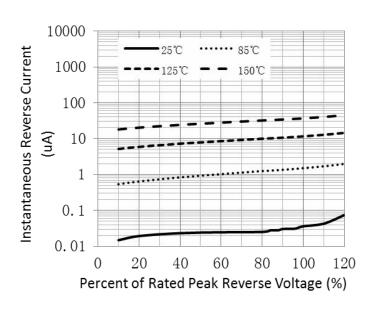
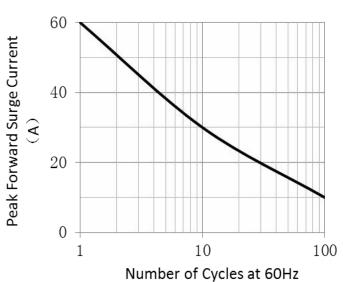


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

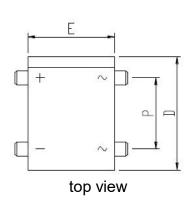


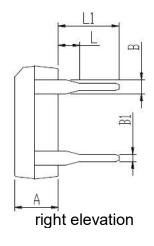


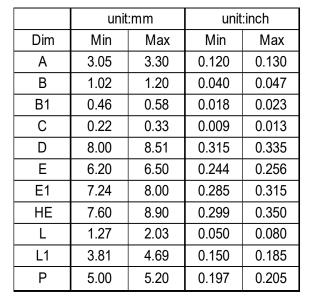
Package Outline Dimensions

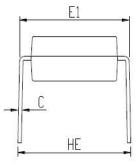
in inches (millimeters)

First angle projection









elevation view

Revision History

Document Version	Date of release	Discroption of changes		
Rev.A	2021/3/21	Released Datasheet		
Rev.B	2023/12/21	Modify document format		



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