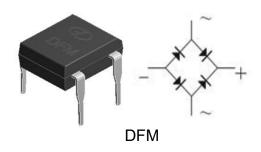


GOOD-ARK Electronics

Reverse Voltage 200~1000V Forward Current 1.0A

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	DB103	DB104	DB105	DB106	DB107	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)}	1.0					A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load		I _{FSM}	40					A
Rating for fusing (t≤8.3ms)		l ² t	6.7					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	10.5		pF			



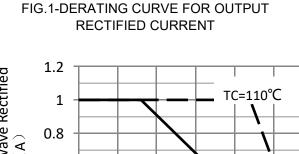
Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	DB103	DB104	DB105	DB106	DB107	Unit
Maximum instantaneous forward voltage	0.5A		1.0					
	1.0A	V _F	1.1					
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5					
	TA=125°C		50					μA
Typical thermal resistance ¹⁾	juntion to ambient	R _{θJA}	42					°C/W
	juntion to case	R _{θJC}	12					

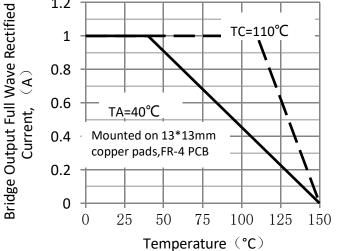
Note: 1)The thermal resistance from junction to ambient,case or mount,mounted on P.C.B with 13×13mm copper pads,2 OZ,FR4PCB



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)







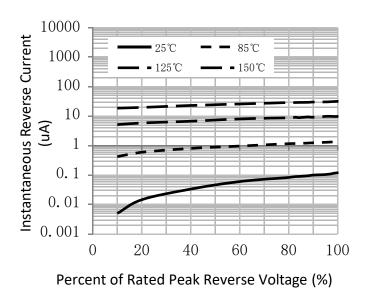


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

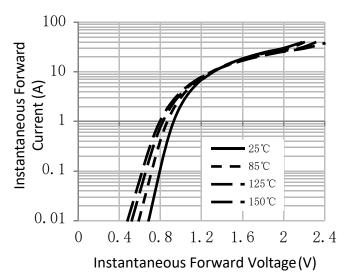
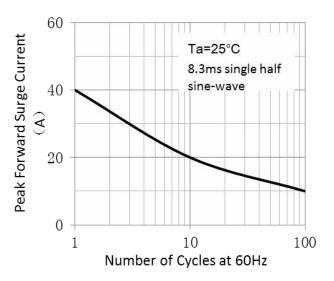


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

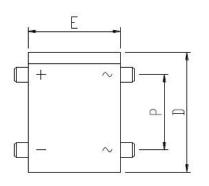


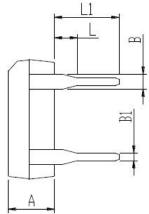


Package Outline Dimensions

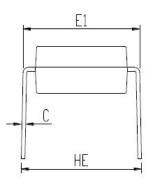
in inches (millimeters)

First angle projection





top view



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		

right elevation

	unit:	mm	unit:inch		
Dim	Min	Max	Min	Max	
A	3.05	3.30	0.120	0.130	
В	1.02	1.20	0.040	0.047	
B1	0.46	0.58	0.018	0.023	
С	0.22	0.33	0.009	0.013	
D	8.00	8.51	0.315	0.335	
E	6.20	6.50	0.244	0.256	
E1	7.24	8.00	0.285	0.315	
HE	7.60	8.90	0.299	0.350	
L	1.27	2.03	0.050	0.080	
L1	3.81	4.69	0.150	0.185	
Р	5.00	5.20	0.197	0.205	



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