

GOOD-ARK Electronics

Reverse Voltage 200~1000V Forward Current 1.5A

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	DB153	DB154	DB155	DB156	DB157	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		200	400	600	800	1000	V		
Maximum average forward rectified current	I _{F(AV)}	1.5					А		
Peak forward surge current 8.3 ms single hal sine-wave superimposed on rated load	f I _{FSM}	50					A		
Rating for fusing (t≪8.3ms)	l ² t	10.4					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	13					pF		



Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	DB153	DB154	DB155	DB156	DB157	Unit	
Maximum instantaneous	IF=0.75A		1.0						
forward voltage	IF=1.5A	V _F	1.1						
Maximum DC reverse	TA=25°C		5						
voltage	TA=125°C	I _R	50					μA	
	juntion to ambient	R _{θJA}	45						
Typical thermal resistance ¹⁾	juntion to case	R _{eJC}	15					°C/W	

Note:

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







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

ĩ		unit:	mm	unit:inch		
1	Dim	Min	Max	Min	Max	
•	А	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	
	P	5.00	5.20	0.197	0.205	



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