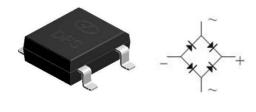


Reverse Voltage 1100V Forward Current 1.5A

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



DFS

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: DFS, 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		DB157S	Unit	
Maximum repetitive peak reverse voltage		1100	V	
Maximum RMS voltage	V _{RMS}	770	V	
Maximum DC blocking voltage	V _{DC}	1100	V	
Maximum average forward rectified current	I _{F(AV)}	1.5	А	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50	А	
Rating for fusing (t \leqslant 8.3ms)		10.4		
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150		
Typical junction capacitance 4.0 V, 1MHz	CJ	13	pF	



Electrical Characteristics (TA = 25 °C unless otherwise noted)				
Parameter	TestConditions	Symbol	DB157S	Unit
Maximum instantaneous forward voltage	IF=0.75A,Ta=25°C	V _F	1.0	Volts
	IF=1.5A,Ta=125°C		1.1	
Maximum DC reverse current at rated DC blocking voltage	TA=25°C		5	
	TA=125°C	I _R	50	μA
Typical reverserecovery time	I _F =0.5A,I _R =1.0A,	T _{rr}	1.9	
	I _{rr} =0.25A			uS
Typical thermal resistance ¹⁾	juntion to ambient	R _{eja}	45	
	juntion to case	$R_{ extsf{ heta}JC}$	15	°C/W

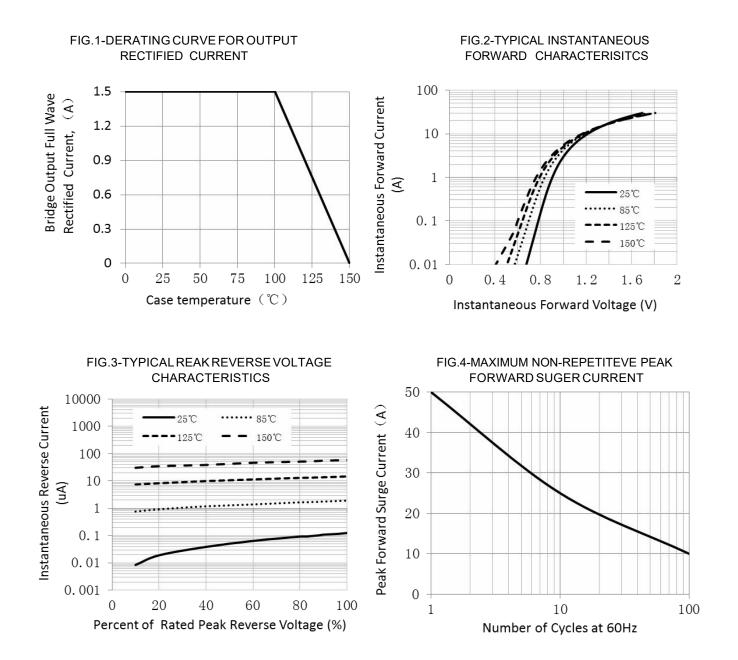
Note:

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

(TA = 25°C unless otherwise noted)

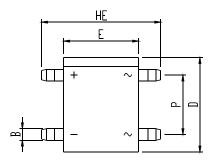




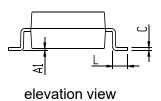
Package Outline Dimensions

in inches (millimeters)

First angle projection



top view



		unit:mm				unit:inch
	Dim	Min	Max	Dim	Min	Max
1	А	3.05	3.30	А	0.120	0.130
	A1	0.076	0.33	A1	0.003	0.013
	В	1.02	1.20	В	0.040	0.047
	С	0.22	0.33	С	0.0087	0.013
	D	8.00	8.51	D	0.315	0.335
	E	6.20	6.50	E	0.244	0.256
-	HE	9.80	10.30	HE	0.386	0.406
	L	1.02	1.52	L	0.040	0.060
	Р	5.00	5.20	Р	0.197	0.205

right elevation

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	



DB157S GOOD-ARK Electronics

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