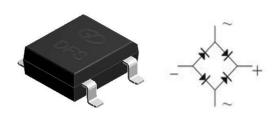
GOOD-ARK Electronics

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



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	Symbol	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	٧
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	٧
Maximum average forward rectified current	I _{F(AV)}	1.0					Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	40					А
Rating for fusing (t≤8.3ms)	l ² t	6.7					A^2s
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



DF02S thru DF10S GOOD-ARK Electronics

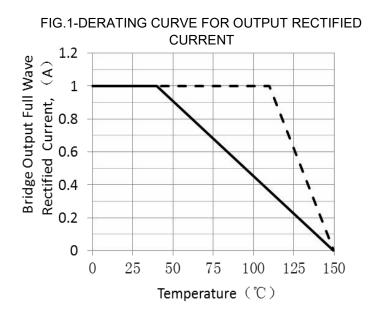
Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
Maximum instantaneous forward voltage	IF=0.5A		1.0					
	IF=1.0A	V_{F}	1.1					Volts
Maximum DC reverse			5					
current at rated DC blocking voltage	TA=125°C	I _R	50				μA	
	juntion to ambient	$R_{\theta JA}$	42					
Typical thermal resistance ¹⁾	juntion to case	$R_{\theta JC}$	12					°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)



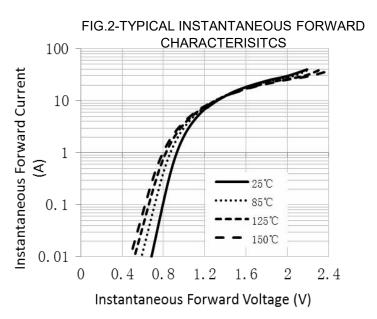
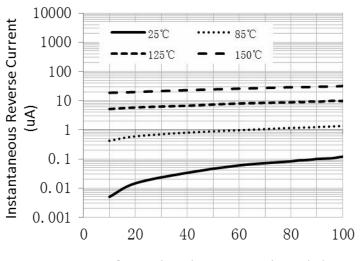
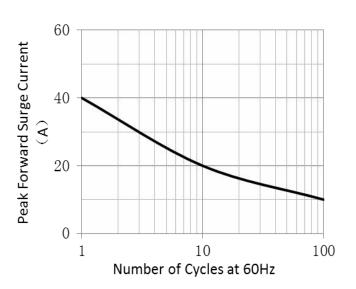


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS



Percent of Rated Peak Reverse Voltage (%)

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

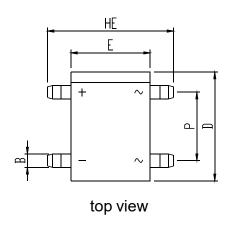


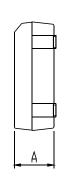
DF02S thru DF10S

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Package Outline Dimensions

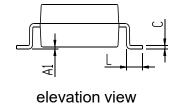
in inches (millimeters)





right elevation

	unit:	mm	unit:inch		
Dim	Min	Max	Min	Max	
Α	3.05	3.30	0.120	0.130	
A1	0.08	0.33	0.003	0.013	
В	1.02	1.20	0.040	0.047	
С	0.22	0.33	0.009	0.013	
D	8.00	8.51	0.315	0.335	
Е	6.20	6.50	0.244	0.256	
HE	9.80	10.30	0.386	0.406	
L	1.02	1.52	0.040	0.060	
Р	5.00	5.20	0.197	0.205	



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



DF02S thru DF10S

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