DF1505S THRU DF1510S

1.5A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers

■ Features

- Surge overload ratings to 30 amperes peak.
- Surface mount type for automated replacement.
- Ideal for printed board.
- Low forward drop down voltage.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.
- Suffix "G" indicates Halogen-free part, ex.DF1505SG.
- · Lead-free parts meet RoHS requirments.
- UL recognized file # E321971

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, DFS

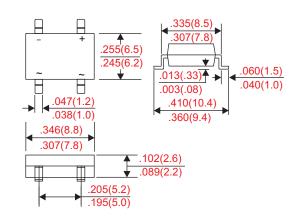
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: marked on bodyMounting Position: Any

• Weight: Approximated 1.00 gram

Outline

DFS



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	at T _A = 40°C	Io			1.5	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			50	Α
D	$V_R = V_{RRM} T_A = 25^{\circ}C$				5.0	uA
Reverse current	$V_R = V_{RRM} T_A = 125^{\circ}C$	I _R			500	
Storage temperature		T _{stg}	-55		+150	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage $V_{_{\mathbb{R}}}(V)$	Max. forward voltage $@1.5A, T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T _J (°C)
DF1505S	DF1505S	50	35	50		
DF151S	DF151S	100	70	100		
DF152S	DF152S	200	140	200		
DF154S	DF154S	400	280	400	1.1	-55 ~ +150
DF156S	DF156S	600	420	600		
DF158S	DF158S	800	560	800		
DF1510S	DF1510S	1000	700	1000		

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■ Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

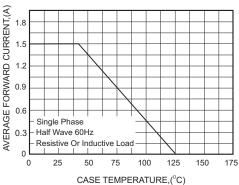


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

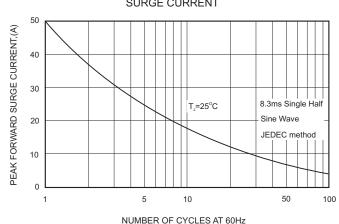


FIG.3-TYPICAL FORWARD

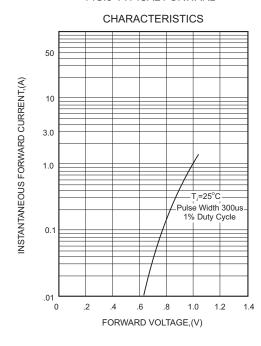
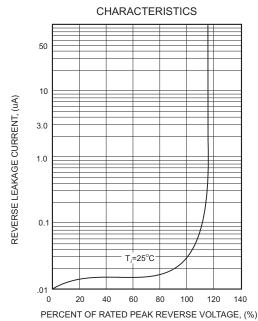


FIG.4-TYPICAL REVERSE

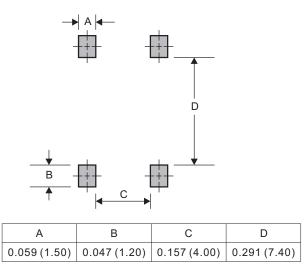


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■ DFS foot print



Dimensions in inches and (millimeters)

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