1.5A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Features

- Surge overload ratings to 50 amperes peak.
- Recommended for non-automatic applications.
- Ideal for & save space on printed circuit board.
- Applicable for automatic insertion.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- · Glass passivated chip junctions.
- Suffix "G" indicates Halogen-free part, ex.DF1505G.
- · Lead-free parts meet RoHS requirments.
- UL recognized file # E321971

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, DF

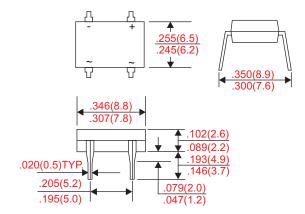
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: marked on bodyMounting Position: Any

• Weight: Approximated 0.38 gram

Outline

DF



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 TA = 40°C	I _o			1.5	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			50	А
Davis and a summer to	$V_R = V_{RRM} T_A = 25^{\circ}C$	_			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 $V_{_{R}}(V)$	Max. forward voltage @1.5A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T_{J} (°C)
DF1505	DF1505	50	35	50		
DF151	DF151	100	70	100		
DF152	DF152	200	140	200		
DF154	DF154	400	280	400	1.1	-55 ~ +150
DF156	DF156	600	420	600		
DF158	DF158	800	560	800		
DF1510	DF1510	1000	700	1000		

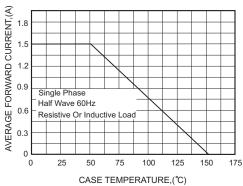
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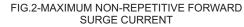
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■ Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE





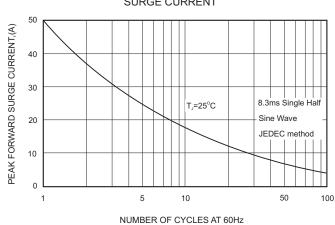


FIG.3-TYPICAL FORWARD

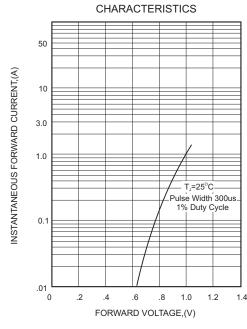
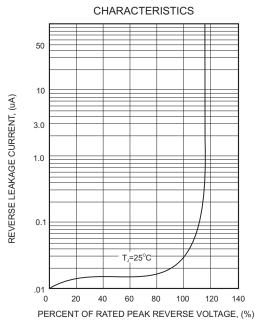


FIG.4-TYPICAL REVERSE



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DF1505 THRU DF1510

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