

RABF152 THRU RABF1510

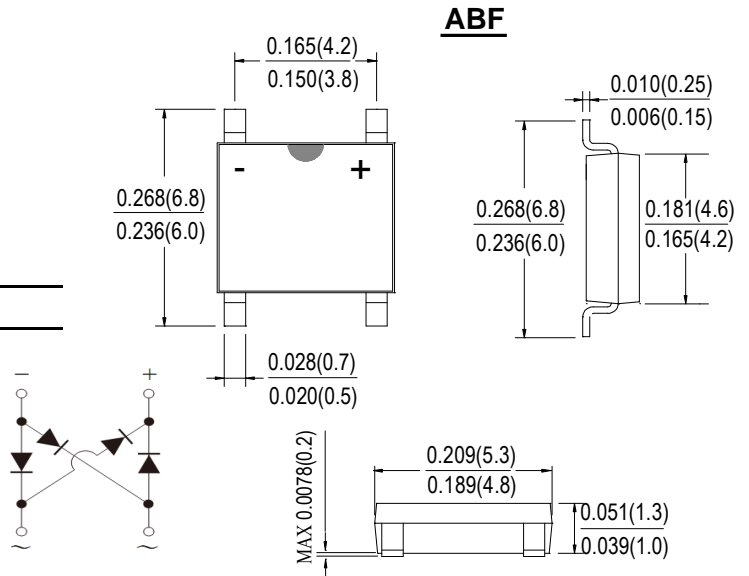
SINGLE PHASE 1.5AMP FAST GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: SOPA-4, molded plastic ABF
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



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%.

TYPE NUMBER	SYMBOL	RABF152	RABF154	RABF156	RABF158	RABF1510	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}						
Working Peak Reverse Voltage	V_{RWM}	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}						
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current @ $T_c = 100^\circ C$	IF(AV)	1.5					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50					A
Rating for fusing ($t < 8.3ms$)	$I^2 t$	10.375					A ² s
Forward Voltage per element @IF=1.5A	V_{FM}	1.3					V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	5.0 200					μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	150	250	500			ns
Typical Thermal Resistance per leg	$R_{\theta JA}$	62.5					$^\circ C/W$
	$R_{\theta JL}$	25					
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150					$^\circ C$

Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

FIG.1 FORWARD CURRENT DERATING CURVE

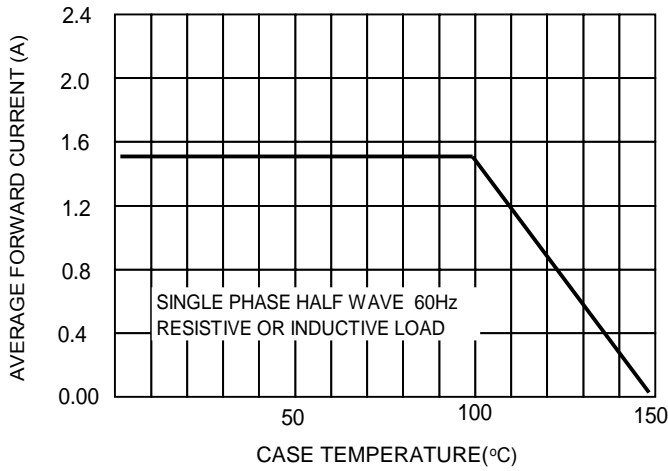


FIG.2 TYPICAL FORWARD CHARACTERISTICS

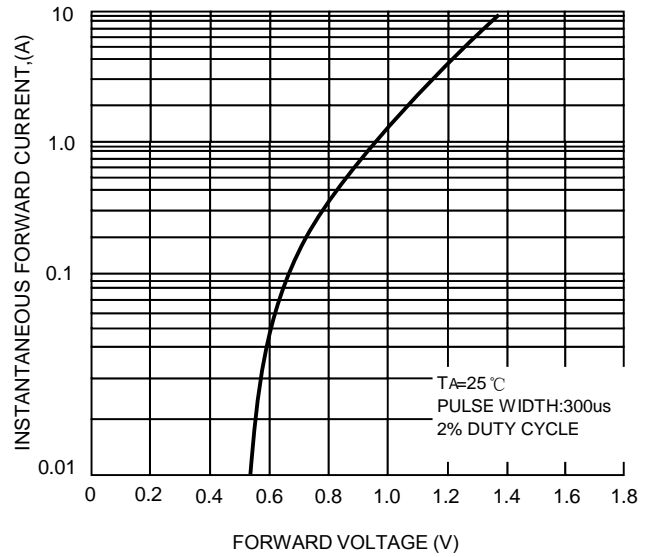


FIG.3 MAXIMUM NON-REPETITIVE

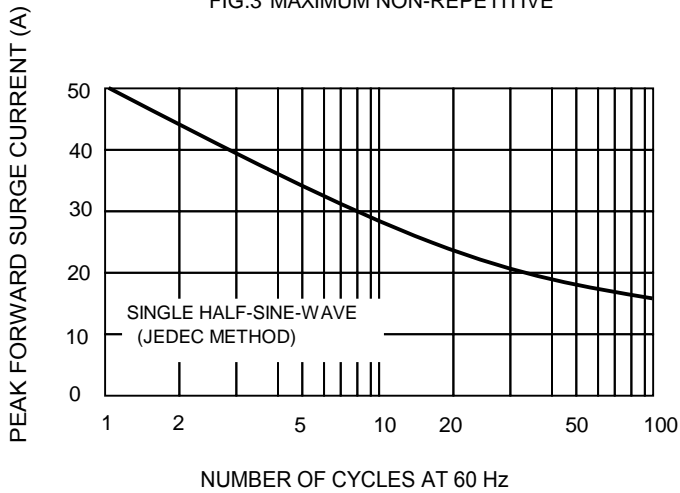
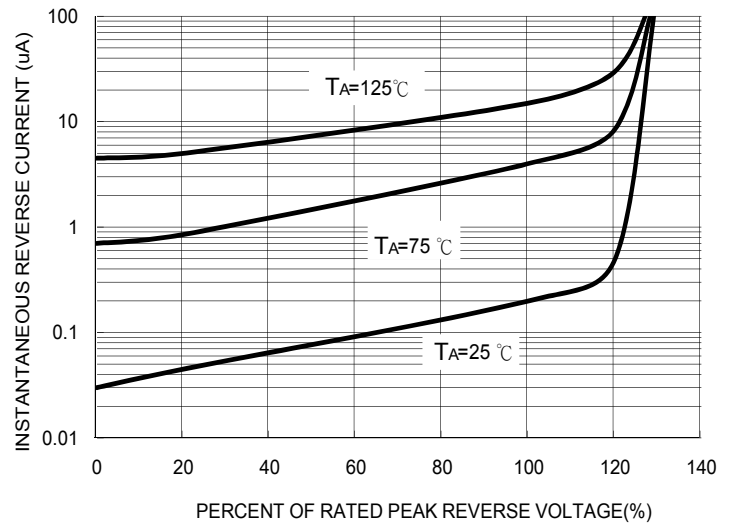
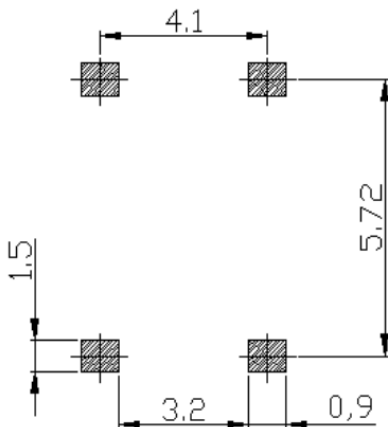


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



PAD LAYOUT



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