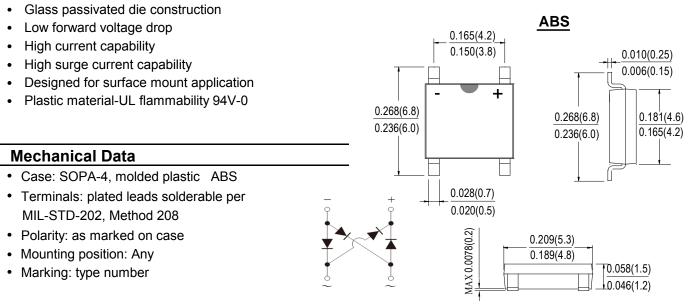


ABS151 THRU ABS1510

SINGLE PHASE 1.5AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	ABS151	ABS152	ABS154	ABS156	ABS158	ABS1510	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	100	200	400	600	800	1000	V
	VRWM							
	VDC							
RMS Reverse Voltage	VRMS	70	140	280	420	560	700	V
Average Rectified Output Current @Tc =100 $^{\circ}$ C	IF(AV)	1.5						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	50						А
Rating for fusing (t<8.3ms)	l ² t	10.375					A²s	
Forward Voltage per element @IF=0.75A @IF=1.5A	Vfm	0.95 1.0						V
Peak Reverse Current @Ta =25℃ At Rated DC Blocking Voltage @Ta =125℃	lr	5.0 200						uA
Typical Thermal Resistance per leg	Reja	62.5						°C/W
	Rejl	25						
Operating and Storage Temperature Range	TJ,TSTG	-55to+150						°C



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FIG.1 FORWARD CURRENT DERATING CURVE

FIG.2 TYPICAL FORWARD CHARACTERISTICS

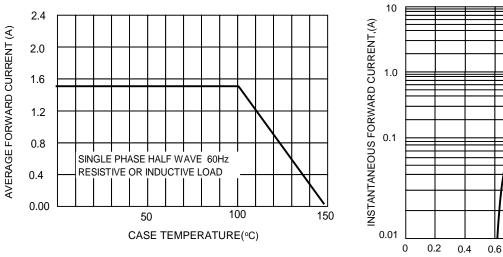


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

1.2

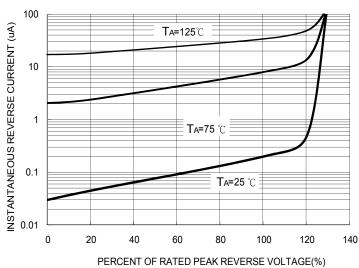
TA=25 ℃ PULSE WIDTH:300us

1.4

1.6

1.8

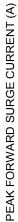
2% DUTY CYCLE



0.8

FORWARD VOLTAGE (V)

1.0

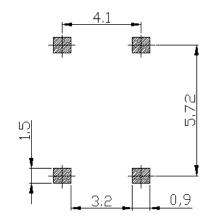


SURGE CURRENT 50 40 30 20 SINGLE HALF-SINE-WAVE $|| \prod$ (JEDEC METHOD) 10 0 2 1 5 10 20 50 100

FIG.3 MAXIMUM NON-REPETITIVE FORWARD

NUMBER OF CYCLES AT 60 Hz

ABS PAD LAYOUT





ABS151 THRU ABS1510

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