



CHANGZHOU LANGJIE ELECTRONIC

SURFACE MOUNT FAST SWITCHING RECTIFIER

ABS1501 THRU ABS1510

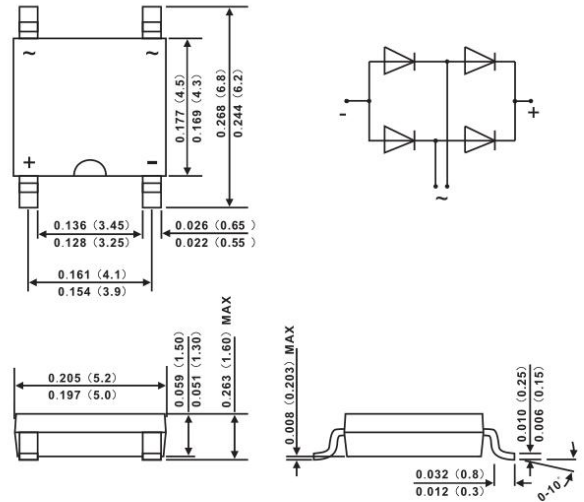
VOLTAGE RANGE
100 to 1000 Volts
CURRENT
1.5 Ampere

Features

- Glass passivated chip junction
- Ideal for surface mounted applications
- Low leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds at terminals

Mechanical Data

- Case: Molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Molded on body
- LeadP: Plated terminals solderable per MIL-STD-202E method 208C
- Weight: 0.003 ounce, 0.10 grams

ABS


Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

- Ratings 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	SYMBOLS	ABS1501	ABS1502	ABS1504	ABS1506	ABS1508	ABS1510	UNIT
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length at $T_L=100^\circ\text{C}$	$I_{(AV)}$	1.5						Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	50						Amps
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	3.7						A^2s
Maximum Instantaneous Forward Voltage drop Per Bridge element 1.5A	V_F	1.1						Volts
Maximum Reverse Current at rated DC blocking voltage per element	TA=25°C	5						μAmps
	TA=125°C	50						
Typical Junction Capacitance (NOTE 1)	C_J	30						pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	65						°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	(-55 to +150)						°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on P.C.B. with 0.033"x0.043"(1.00mm×1.30mm) copper pads.



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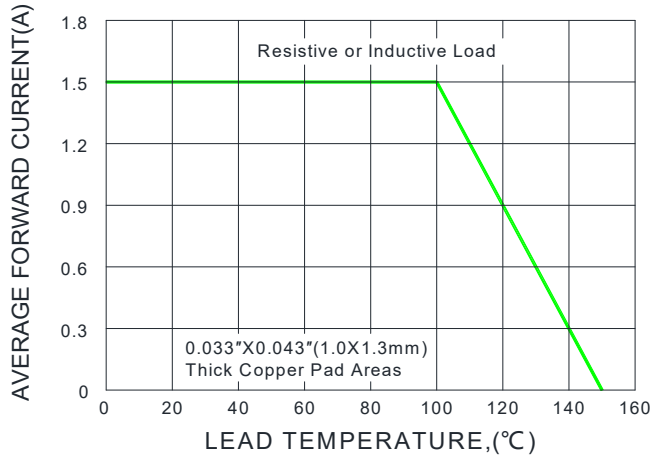
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VOLTAGE RANGE 100 to 1000 Volts
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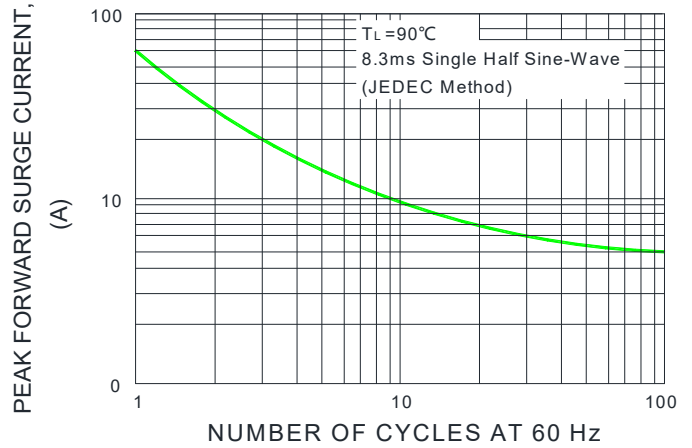
ABS1501 THRU ABS1510

Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

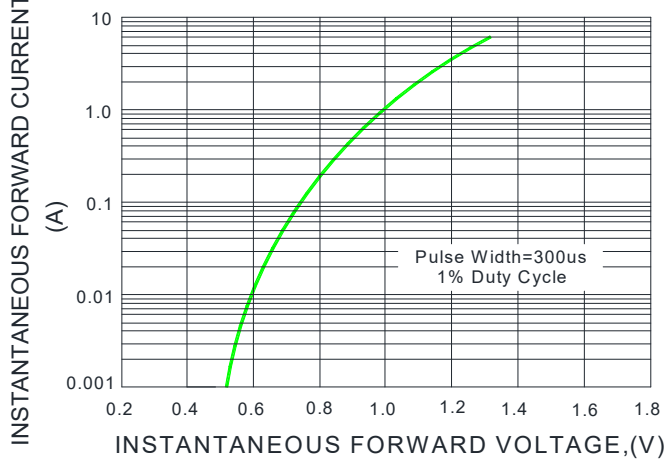
F1G.1-FORWARD CURRENT DERATING CURVE



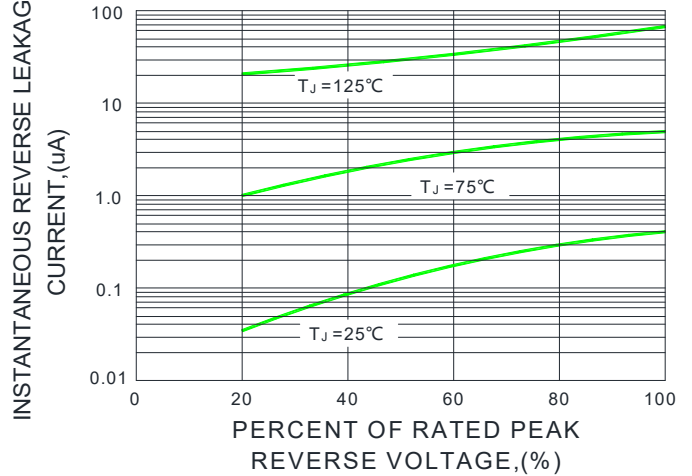
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



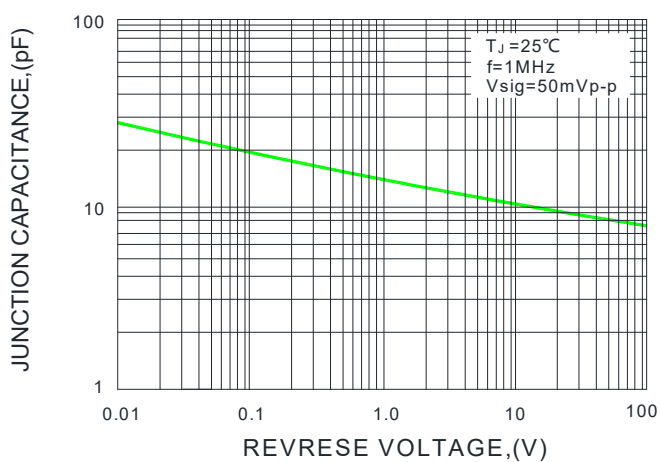
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



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