



SHENZHEN FAITH TECHNOLOGY CO.,LTD

SURFACE MOUNT FAST SWITCHING RECTIFIER

ABS201 THRU ABS210

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

2.0 Ampere

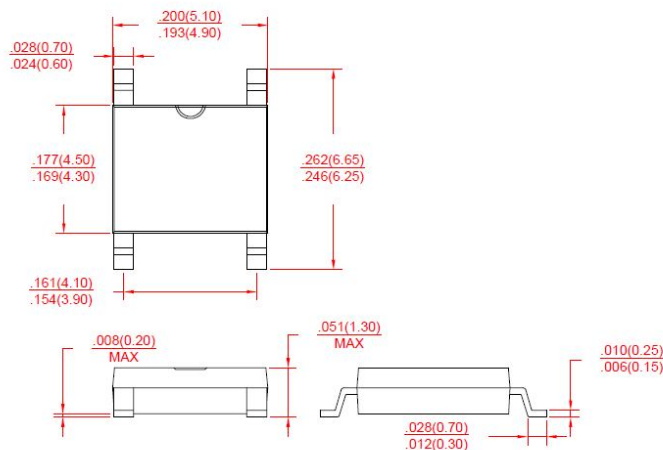
MINI-DIP

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, 0.1 gram



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	ABS201	ABS202	ABS203	ABS204	ABS206	ABS208	ABS210	UNIT
Maximum Reverse Peak Repetitive Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06”(1.5mm) lead length at T _L =100°C		I _(AV)	2.0							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<8.3ms)		I ² t	3.7							A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 2.0A		V _F	1.1							Volts
Maximum Reverse Current at rated DC blocking voltage per element	T _A =25°C	I _R	5							μAmps
	T _A =125°C		120							
Typical Junction Capacitance (NOTE 1)		C _J	30							pF
Typical Thermal Resistance (NOTE 2)		R _{ΘJA}	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"(1.00mmx1.30mm) copper pads.



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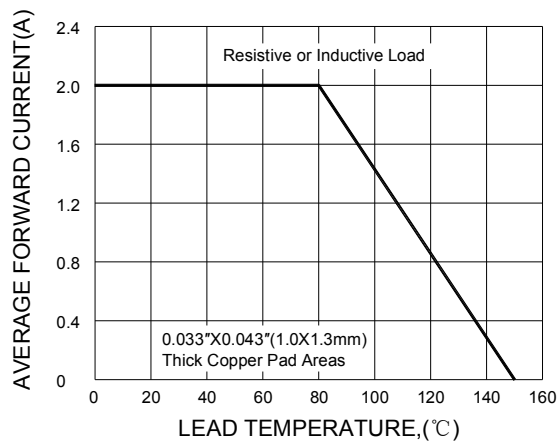
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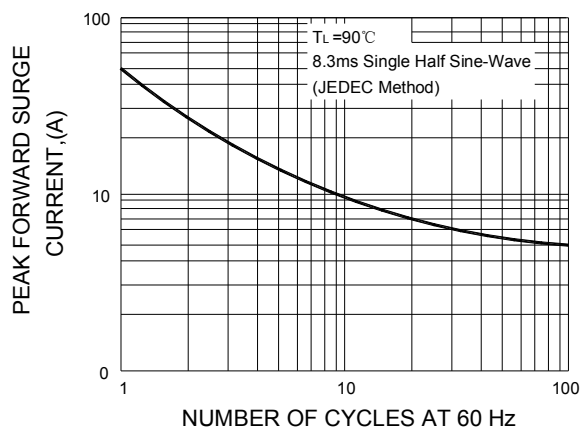
CURRENT

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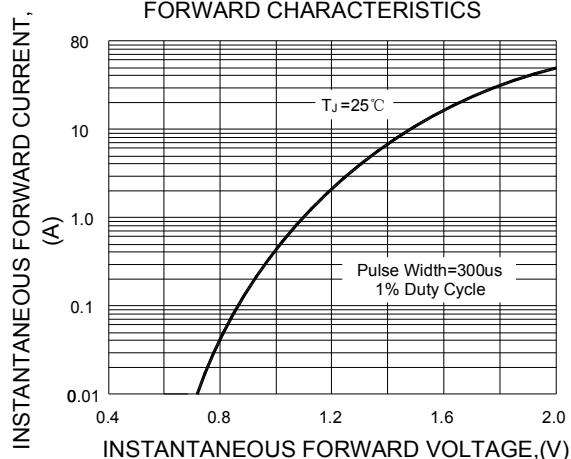
F1G.1-FORWARD CURRENT
DERATING CURVE



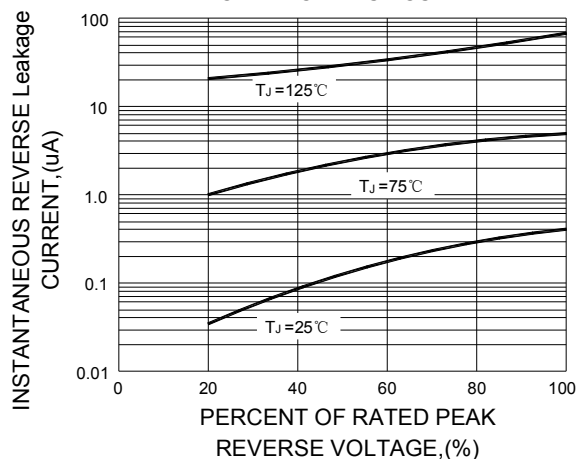
F1G.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE
CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

