

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Ideal for printed circuit board
- High temperature soldering guaranteed:260C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

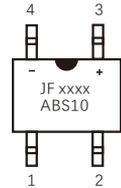
MECHANICAL DATA

- Case: ABS molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

TYPICAL APPLICATIONS

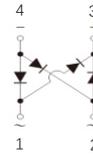
Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.

ABS



Pin Diagram

Marking
JF:Logo
XXXX:Data code
ABS10:Type



Internal Schematic

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%.)

Parameters	Symbols	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Units
Maximum Recurrent Peak Reverse 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 Current	I _(AV)	1.0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	35						Amps
Maximum Instantaneous Forward Voltage at I _F =	0.5A	0.95						Volts
	1.0A	1.10						
Rating for fusing(1ms < t<8.3ms)	I ² t	5.0						A ² s
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	5						μA
	T _A =125°C	100						
Typical junction capacitance(Note1)	C _J	25						PF
Typical thermal resistance(Note 2)	R _{θ JA}	62						°C/W
	R _{θ JL}	25						
Operating junction and storage temperature range	T _J T _{STG}	-55 to +150						°C

Notes: 1.Measured at 1MHZ and applied reverse voltage of 4.0 Volts.

2.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.56"*0.73" copper pad.

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

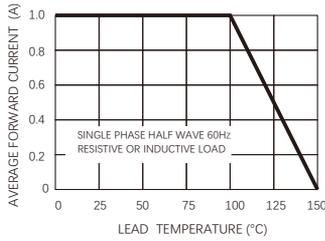


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

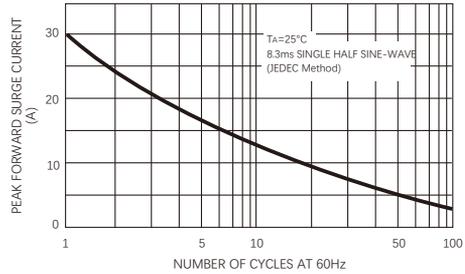


FIG3-TYPICAL JUNCTION CAPACITANCE

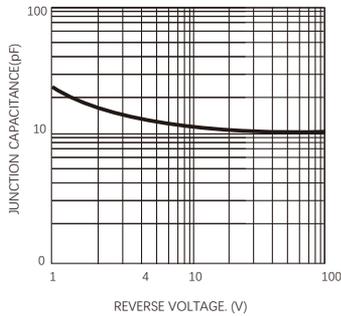


FIG4-TYPICAL FORWARD CHARACTERISTICS

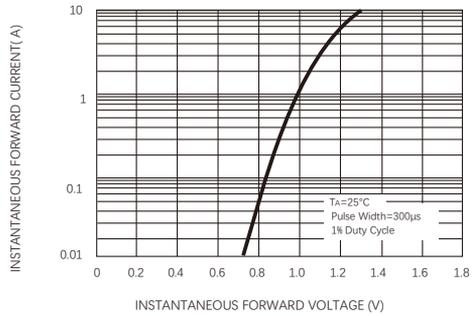
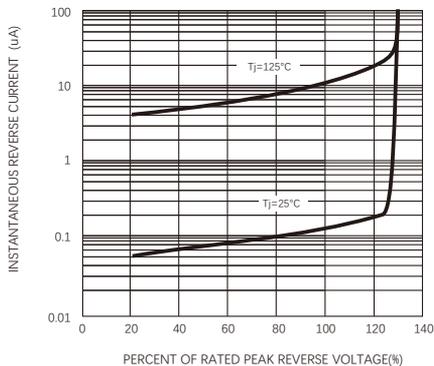
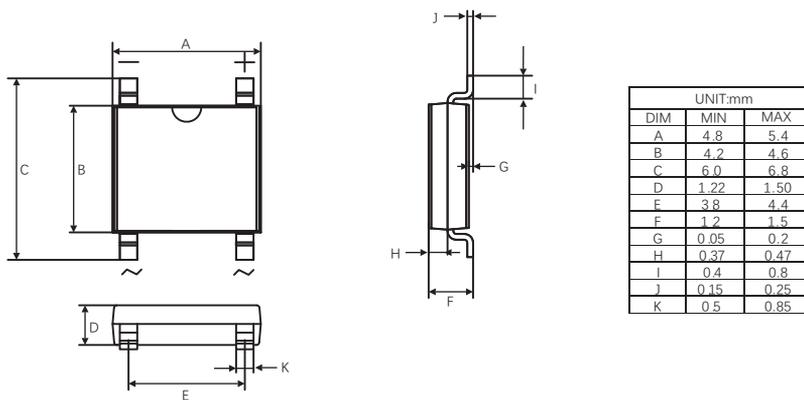


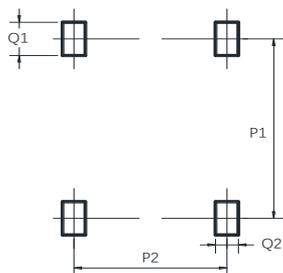
FIG.5-TYPICAL REVERSE CHARACTERISTICS



ABS



Suggested Pad Layout



Dim	Min(mm)
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90

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