

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Very high forward surge current capability
- Low forward voltage drop, High current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

HALOGEN  
FREE

### MECHANICAL DATA

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

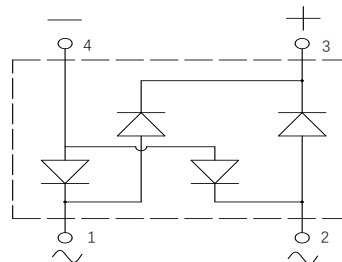
### TYPICAL APPLICATIONS

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



Marking:

JF: Logo  
xxxx: Date code  
ABS206L: Type  
+ -: Polarity



### MAXIMUM RATINGS

(Ratings at 25°C ambient temperature unless otherwise specified )

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	600	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	75	A
Rating for fusing (t=8.3ms)	$I^2t$	23.34	A <sup>2</sup> s
Operating junction temperature range	$T_J$	-55 to +150	°C
Storage temperature range	$T_{stg}$	-55 to +150	°C

## ELECTRICAL CHARACTERISTICS (T<sub>J</sub>=25°C Unless otherwise noted)

Parameter	Test Conditions		Symbol	Min.	Typ.	Max	Unit
Breakdown voltage Blocking voltage	I <sub>R</sub> =100μA		V <sub>BR</sub> V <sub>R</sub>	600	-	-	V
Instaneous forward voltage	T <sub>J</sub> =25°C	I <sub>F</sub> =0.5A	V <sub>F</sub> 1)	-	0.82	-	V
		I <sub>F</sub> =1.0A		-	0.86	-	
		I <sub>F</sub> =2.0A		-	0.90	0.98	
	T <sub>J</sub> =125°C	I <sub>F</sub> =0.5A		-	0.70	-	
		I <sub>F</sub> =1.0A		-	0.74	-	
		I <sub>F</sub> =2.0A		-	0.79	-	
Reverse current	T <sub>J</sub> =25°C	V <sub>R</sub> =1000V	I <sub>R</sub> 2)	-	-	5	μA
	T <sub>J</sub> =100°C			-	-	25	μA
	T <sub>J</sub> =125°C			-	-	100	
Junction capacitance	4V,1MHz		C <sub>J</sub>	-	15	-	pF

Notes: 1.Pulse test: 300μs pulse width,1% duty cycle

2.Pulse test: pulse width ≤40ms

## THERMAL CHARACTERISTICS

Parameter	Symbol	ABS	Unit
Typical thermal resistance <sup>3)</sup>	R <sub>θJA</sub>	62	°C/W
	R <sub>θJL</sub>	25	

Notes3: Device mounted on FR-4 substrate, 1"×1", 2oz, single-sided, PC boards with 0.56"×0.73" copper pad.

## AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm )	Quantity (pcs/reel)	Quantity (reel/box)	Quantity (box/carton)	Quantity (K/carton)
ABS206L-ABS	T/R	Φ330	3000	2	8	48

FIG.1-FORWARD CURRENT DERATING CURVE

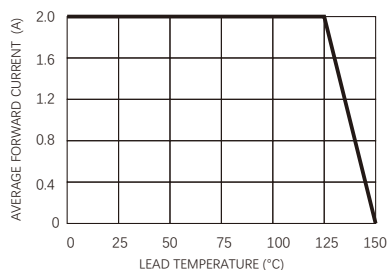


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

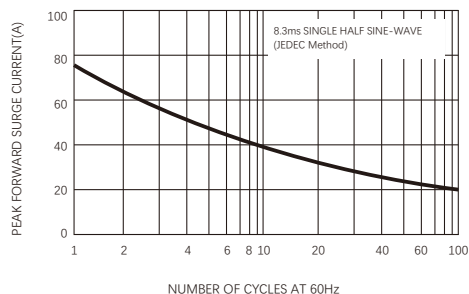


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

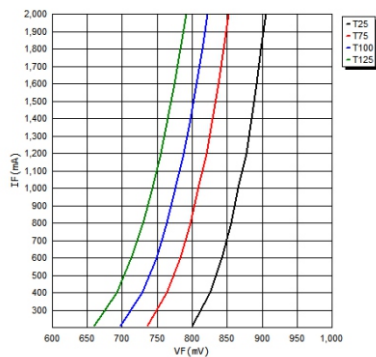


FIG.4-TYPICAL REVERSE CHARACTERISTICS

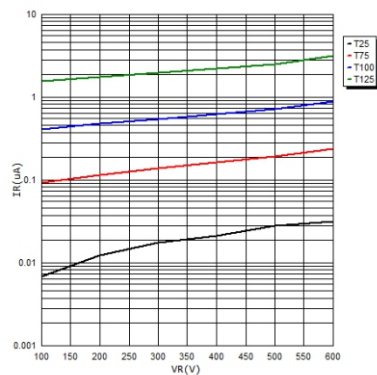
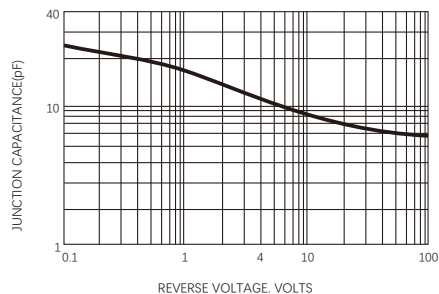
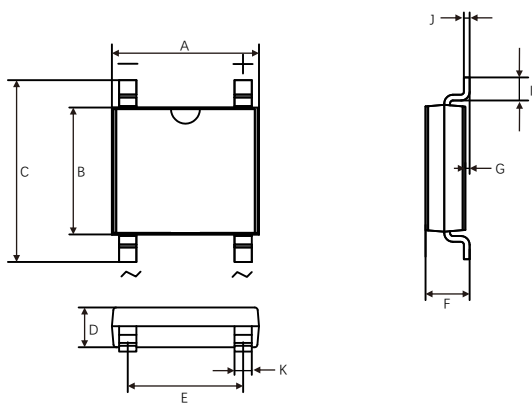


FIG.5-TYPICAL JUNCTION CAPACITANCE



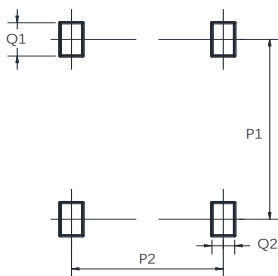
## PACKAGE OUTLINE DIMENSIONS

### ABS



UNIT:mm		
DIM	MIN	MAX
A	4.80	5.40
B	4.20	4.60
C	6.00	6.80
D	1.20	1.50
E	3.80	4.40
F	1.22	1.60
G	0.05	0.15
I	0.30	0.80
J	0.10	0.30
K	0.50	0.85

## Suggested solder pad layout



Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90

Dimensions in millimeters

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