

# ABS202 THRU ABS210

## SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-O
- RoHS compliant package

### Mechanical Data

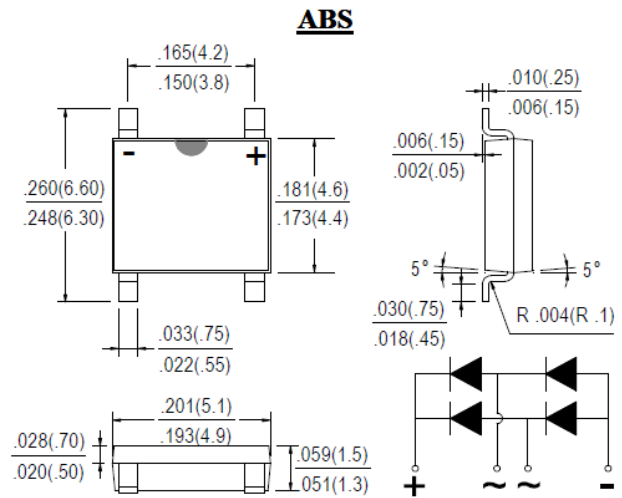
- Case: ABS (SOPA-4), molded plastic
- Terminals: plated leads solderable per MIL-STD-202,

### Method 208

- Polarity: as marked on case
- Mounting position: Any
- Marking: type number

### Packing & Order Information

3,000/Reel



Dimensions in inches and (millimeters)

## 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%.

Parameter	Symbol	ABS202	ABS204	ABS206	ABS208	ABS210	Unit	
Peak Repetitive Reverse Voltage	$V_{RM}$							
Working Peak Reverse Voltage	$V_{RMW}$	200	400	600	800	1000	V	
DC Blocking Voltage	$V_{DC}$							
RMS Reverse Voltage	$V_{RSM}$	140	280	420	560	700	V	
Average Rectified Output Current @TA=65°C	$I_D$	2.0						V
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60						A
Forward Voltage per element @IF=2.0A	$V_{FM}$	1.1						V

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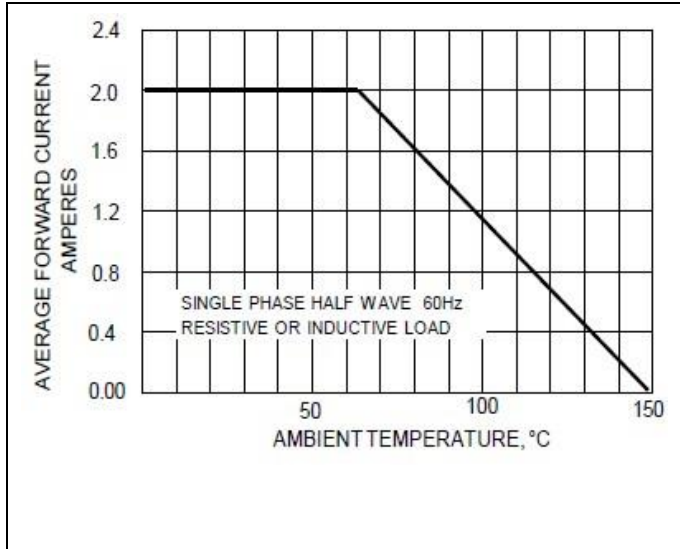
For capacitive load, derate current by 20%

Parameter	Symbol	ABS202	ABS204	ABS206	ABS208	ABS210	Unit
Peak Reverse Current @TA=25°C	I <sub>R</sub>			5.0			uA
At Rated DC Blocking Voltage @TA=125°C				500			
Typical Thermal Resistance per leg	R <sub>θJA</sub>			62.5			°C/W
	R <sub>θJL</sub>			25			
Operating and Storage Temperature Range	T <sub>j</sub> ,T <sub>stg</sub>			-55 to +150			°C

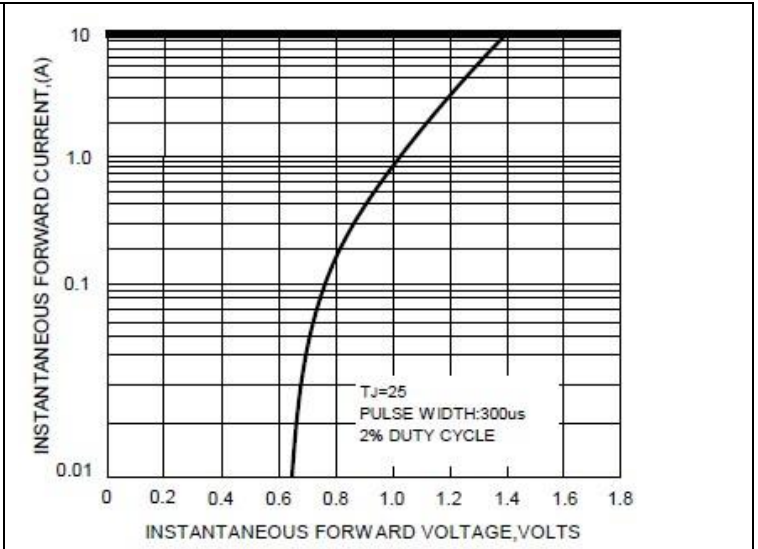
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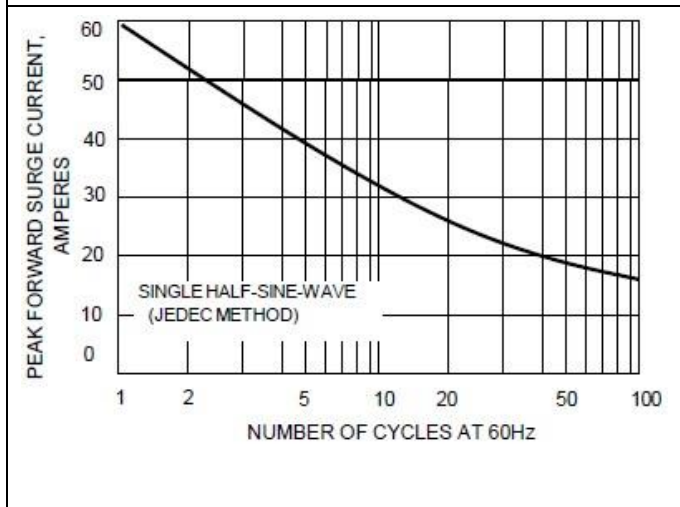
### ■Characteristics Curve



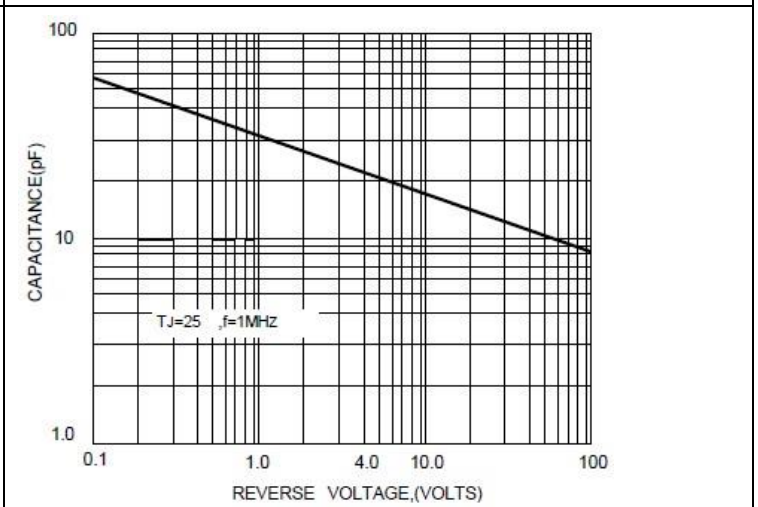
**FIG.1- FORWARD CURRENT DERATING CURVE**



**FIG.2-TYPICAL FORWARD CHARACTERISTICS**



**FIG.3-MXIMUM NON-REPETITIVE SURGE CURRENT**



**FIG.4-TYPICAL JUNCTION CAPACITANCE**

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