



**烜芯微**  
XUANXINWEI

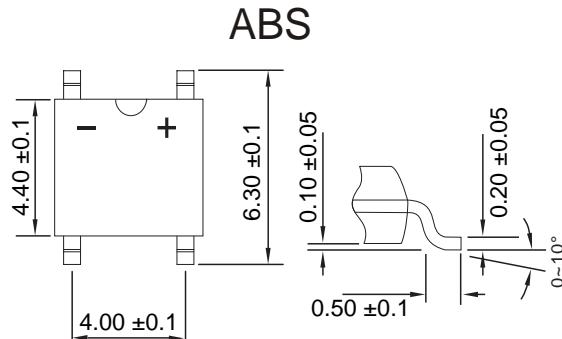
## ABS05 thru ABS10

### 1.0 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50 to 1000V

#### Features

- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 30 amperes
- Ideal for printed circuit board application
- High temperature soldering guaranteed 260°C/5 seconds at 5 lbs (2.3kg) tension



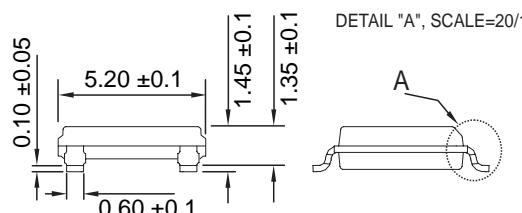
#### Mechanical Data

Case: Molded plastic

Terminals: Plated leads solderable per MIL-STD-202, Method 208

Polarity: Marked on body

Mounting Position: Any



Dimensions in millimeters

#### Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.  
For Capacitive load derate current by 20%.

Parameter	Symbol	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=40°C	IF(AV)					1.0			A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM					30			A
Rating for fusing ( t<8.3ms)	I <sup>2</sup> t					4.0			A <sup>2</sup> sec
Typical thermal resistance per element (1)	ReJA					80			°C/W
Operating junction and storage temperature range	TJ, TSTG					-55 to + 150			°C

#### Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
For Capacitive load derate by 20 %.

Parameter	Symbol	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum instantaneous forward voltage drop per leg at 1.0A	VF					1.1			V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR					10 500			μA

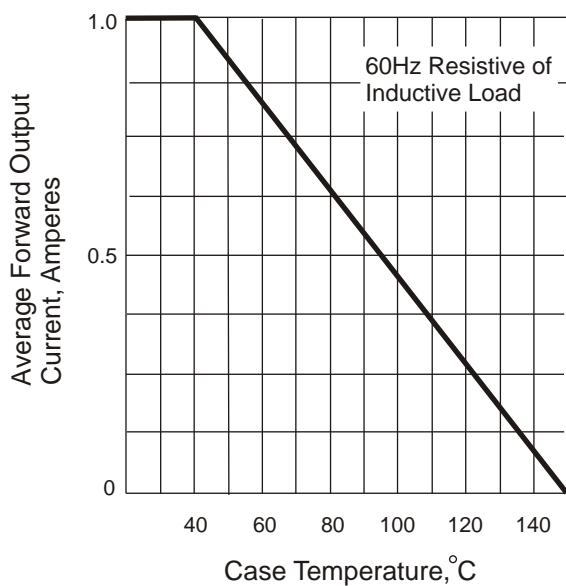
Notes: (1)Thermal resistance from Junction to Ambient on P.C.board mounting.

(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

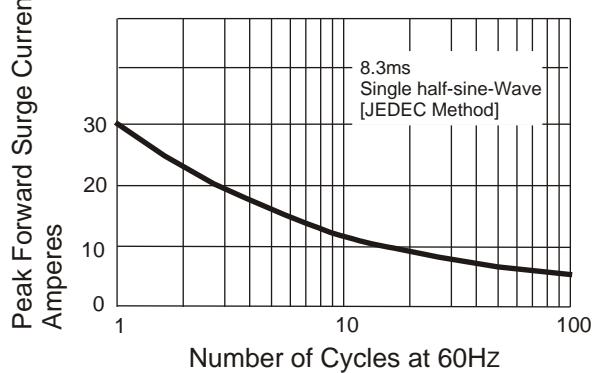
# Rating and Characteristic Curves ( TA=25°C Unless otherwise noted )

## ABS05 thru ABS10

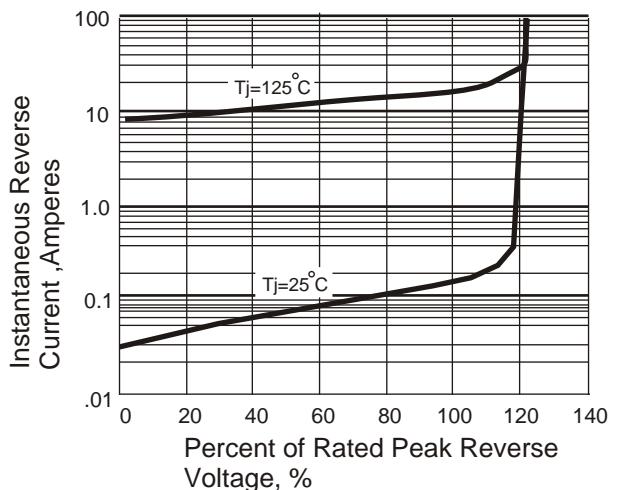
**Fig. 1 Derating Curve for Output Rectified Current**



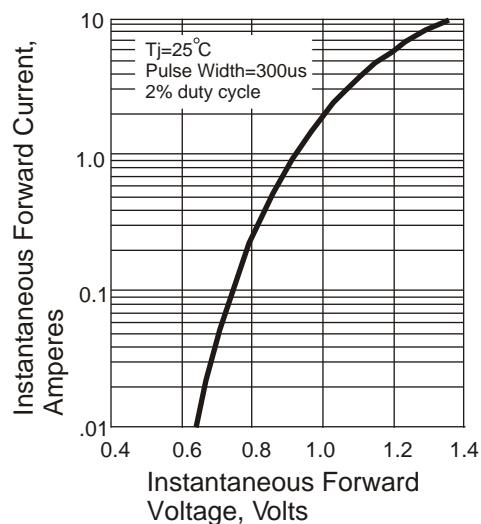
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



**Fig. 4 Typical Revers Characteristics**



**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 5 Typical Junction Capacitance**

