

## ABS05 THRU ABS10

SINGLE PHASE 1.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS



### FEATURES

- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: Symbol molded on body
- \* Mounting position: Any
- \* Weight: 0.12 grams

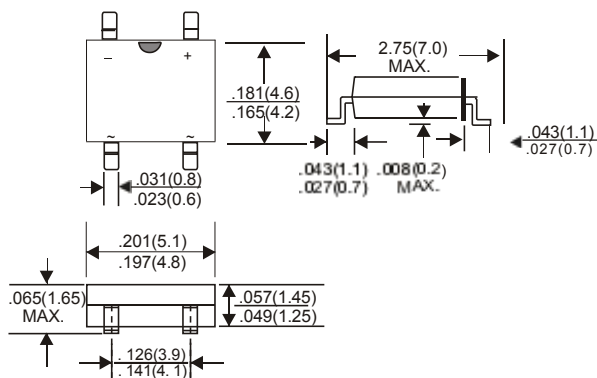
### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

1.0 Ampere

### ABS



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=40°C(Note 1)	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	3.0							A
Maximum Forward Voltage Drop per Bridge Element at 0.4 A D.C.	1.0							V
Maximum DC Reverse Current Ta=25 C	5.0							µA
at Rated DC Blocking Voltage Ta=125 C	500							µA
Typical Thermal Resistance R JA (Note 2)	75							C/W
Operating Temperature Range, Tj	-55—+150							C
Storage Temperature Range, Tstg	-55—+150							C

NOTES: 1. Mounted on P.C. Board.

2. Thermal Resistance Junction to Ambient.

## RATING AND CHARACTERISTIC CURVES (ABS05 THRU ABS10)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

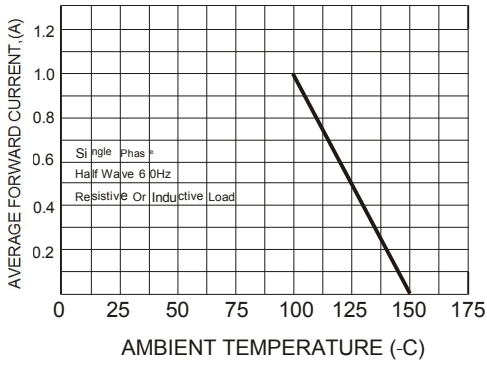


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

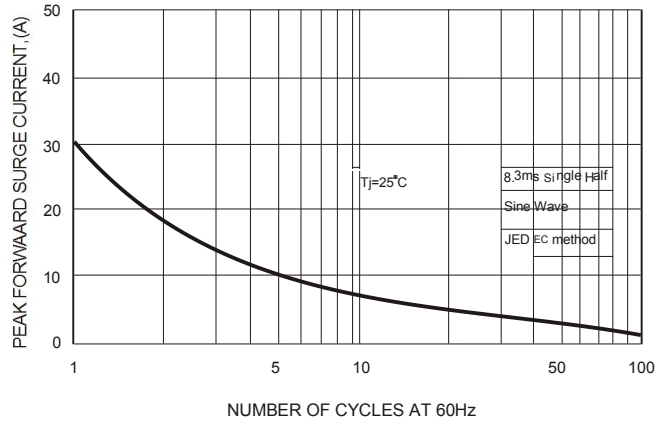


FIG.3-TYPICAL FORWARD CHARACTERISTICS

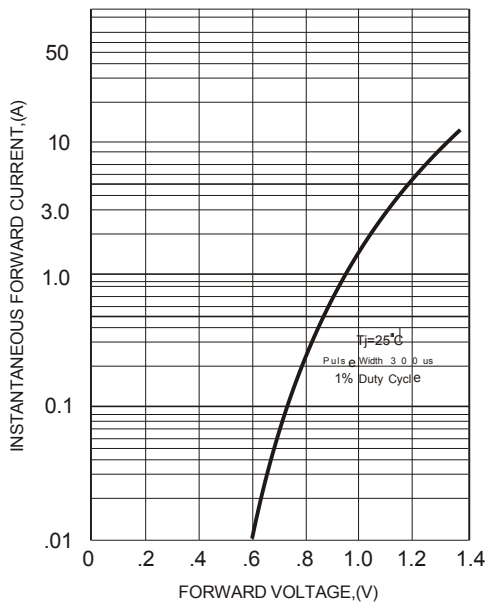
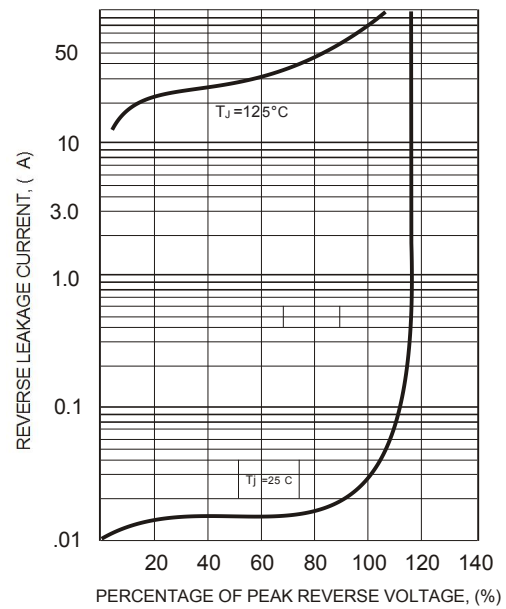


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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