



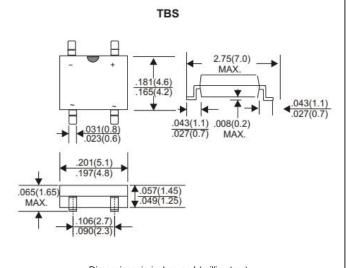
SINGLE PHASE 1.0 AMP SURF ACE MOUNT BRIDGE RECTIFIERS



## **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



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	TB05S	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	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						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		3 0						Α
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.		1.0						V
Maximum DC Reverse Current Ta=25 C		5.0						μA
at Rated DC Blocking Voltage Ta=125 C		500						
Typical Thermal Resistance R JA (Note 2)		75						W
Operating Temperature Range, TJ		-55+150						С
Storage Temperature Range, Tsтs		55 <u></u> +150						С

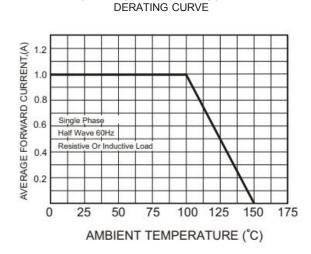
NOTES: 1. Mounted on P.C. Board.

2. Thermal Resistance Junction to Ambient.

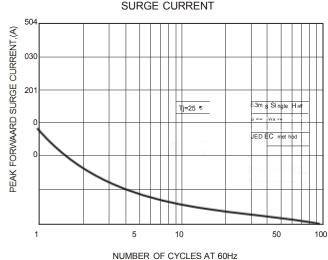


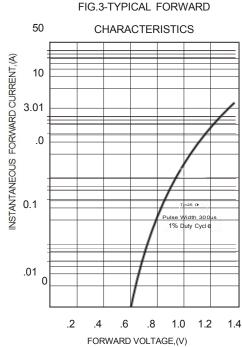
# RATING AND CHARACTERISTIC CURVES (TB05S THRU TB10S)

FIG.1-TYPICAL FORWARD CURRENT

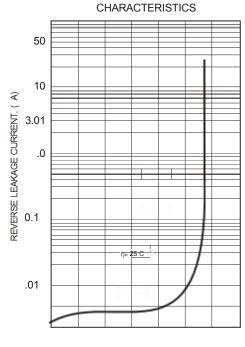


## FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





# FIG.4-TYPICAL REVERSE

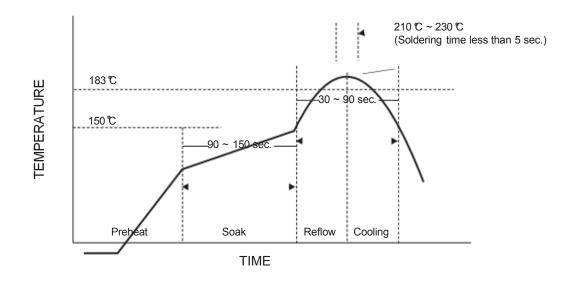


40 60 80 100 120 140 PERCENTAGE OF PEAK REVERSE VOLTAGE, (%)



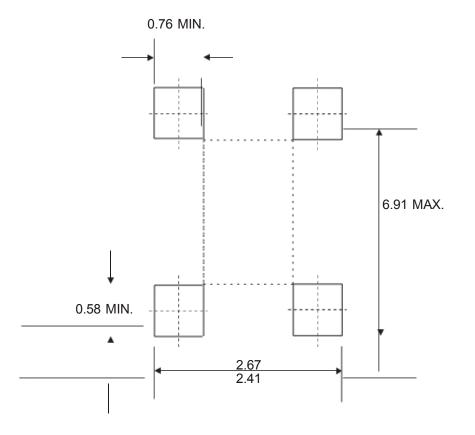
www.fleming1904.com

### RECOMMENDED INFRARED REFLOW SOLDERING PROFILE:



RECOMMENDED MANUAL SOLDERING CONDITION: 350 C / LESS THAN 3 SECONDS.

#### RECOMMENDED MOUNTING PAD LAYOUT:



**DIMENSIONS IN MILLIMETER**