



# DATA SHEET

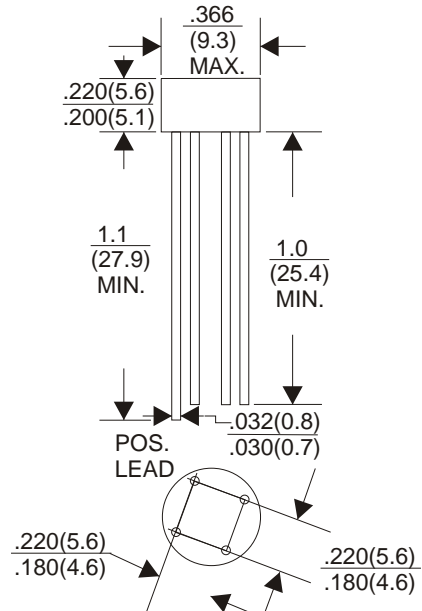
SEMICONDUCTOR

2W005M THRU 2W10M

**SINGLE PHASE 2.0 AMP BRIDGE RECTIFIERS**  
**VOLTAGE RANGE 50 to 1000 Volts**  
**CURRENT 2.0 Amperes**



WOM Unit:inch(mm)



## FEATURES

- Ideal for printed circuit board
- Low forward voltage
- Low leakage current
- Polarity: marked on body
- Mounting position: Any
- Weight: 1.20 grams
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

## 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	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	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 .375" (9.5mm) Lead Length at Ta=50 C	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A
Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.	1.0							V
Maximum DC Reverse Current Ta=25 C at Rated DC Blocking Voltage Ta=100 C	5							uA
	1							mA
Operating Temperature Range, Tj	-55— +150							
Storage Temperature Range, TSTG	-55— +150							

# DEVICE CHARACTERISTICS

## 2W005M THRU 2W10M

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

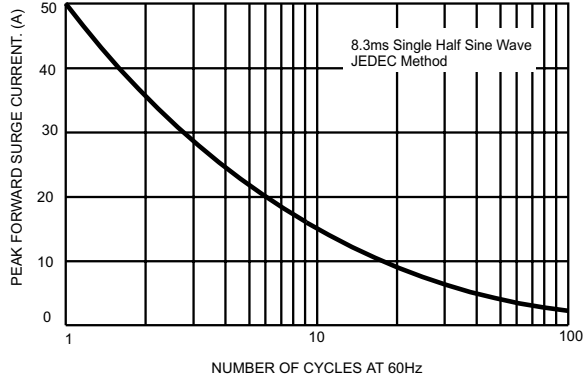


FIG.2- MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT

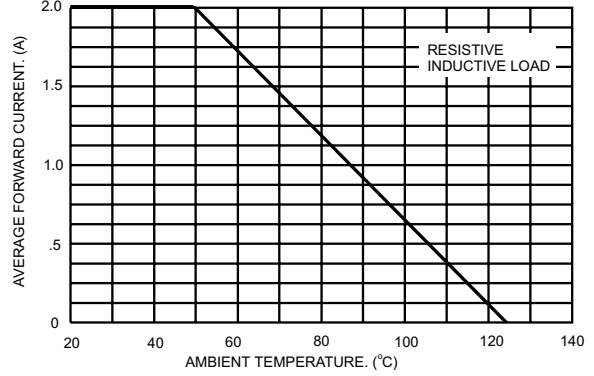


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

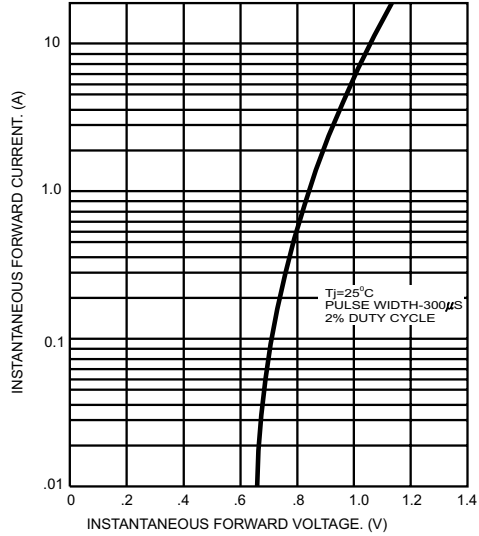


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

