

## Surface Mount Glass Passivated Bridge Rectifiers

 Lead(Pb)-Free

### Features:

- \*Rating to 1000V PRV
- \*Ideal for printed circuit board
- \*Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- \*Lead tin plated copper

### Mecanical Data:

- \*Polarity:Symbol molded on body
- \*Weight: 0.0044 ounces,0.125 grams
- \*Mounting Position : Any

**BRIDGE RECTIFIERS**

**0.8 AMPERES**

**100-1000 VOLTS**

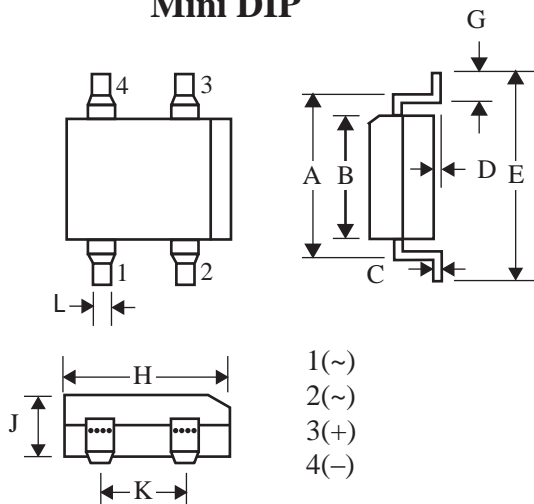


**MINI-DIP**

## MINI-DIP Outline Dimensions

Unit:mm

**Mini DIP**



Dim	Min	Max
A	5.00	5.50
B	4.00	4.25
C	0.009	0.35
D	0.076	0.33
E	-	7.00
G	0.58	1.10
H	4.50	4.90
J	2.30	2.80
K	2.40	3.01
L	0.45	0.75

## Maximun Rating

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%

Characteristics	Symbol	WD01	WD02	WD04	WD06	WD08	WD10	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (Note 1)@ $T_A=40^{\circ}C$	$I(AV)$	0.8						Amps
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	40						Amps
Peak Forward Voltage at 0.8A DC	$V_F$	1.1						Volts
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at Rated DC Bolcking Voltage @ $T_J=125^{\circ}C$	$I_R$	5.0 500						$\mu$ Amps
Tyical Junction Capacitance Per Element (Note2)	$C_J$	15						pF
Tyical Thermal Resistance (Note3)	$R_{\theta JA}$	75						$^{\circ}C/W$
Operating Temperature Range	$T_j$	-55 to +150						$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-55 to +150						$^{\circ}C$

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

2.Measured at1.0MHz and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to ambient.

## Device Marking

Item	Marking	Equivalent Circuit Diagram
WD01	B1S	
WD02	B2S	
WD04	B4S	
WD06	B6S	
WD08	B8S	
WD10	B10S	

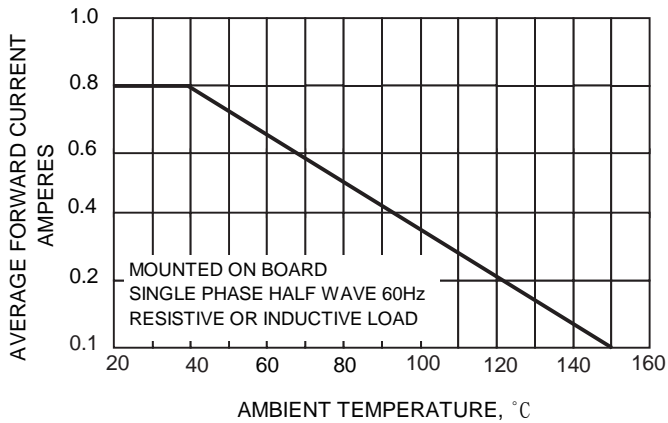


FIG.1-FORWARD CURRENT DERATING CURVE

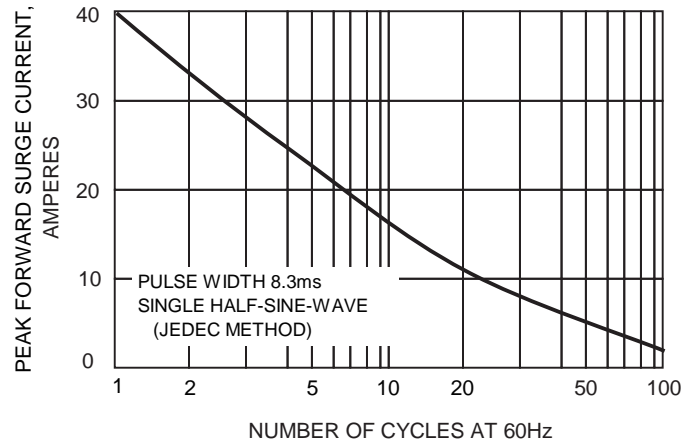


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

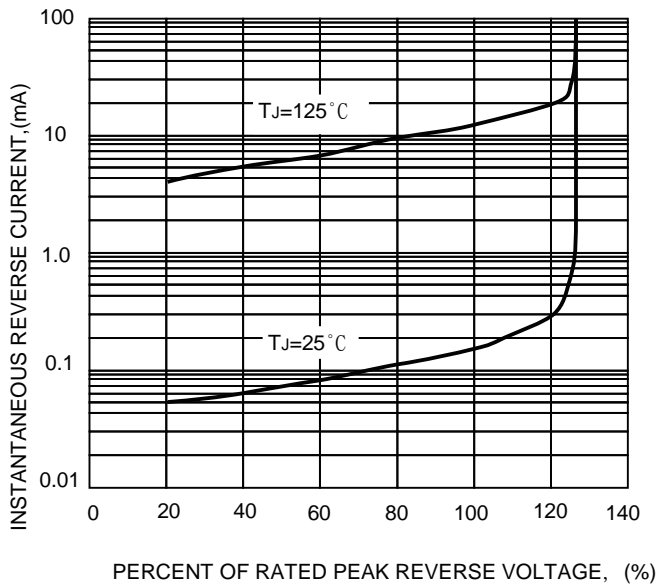


FIG.3-TYPICAL REVERSE CHARACTERISTICS

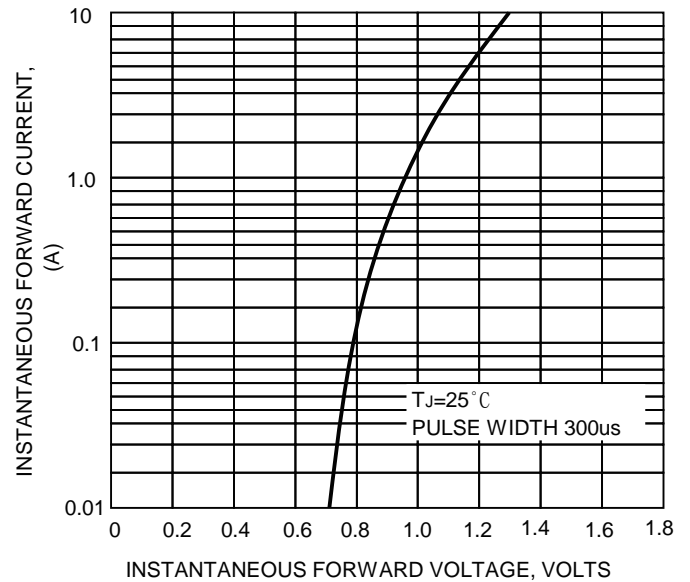


FIG.4-TYPICAL FORWARD CHARACTERISTICS

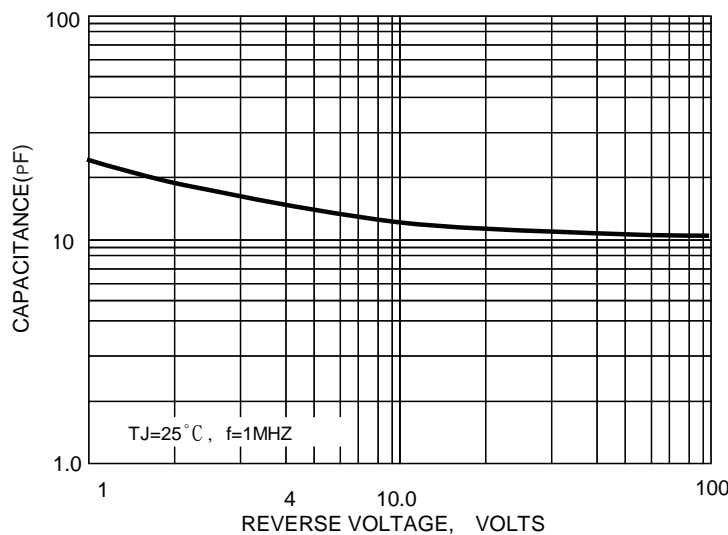


FIG.5-TYPICAL JUNCTION CAPACITANCE