WEITRON

WD01 thru WD10

Surface Mount
Glass Passivated Bridge Rectifiers

Lead(Pb)-Free

BRIDGE RECTIFIERS
0.8 AMPERES
100-1000 VOLTS



MINI-DIP

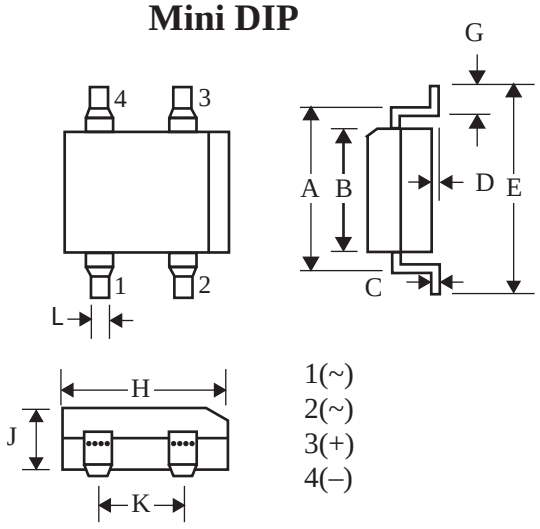
Features:
*Rating to 1000V PRV
*Ideal for printed circuit board
*Reliable low cost construction utilizing
molded plastic technique results in inexpensive product
*Lead tin plated copper

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

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

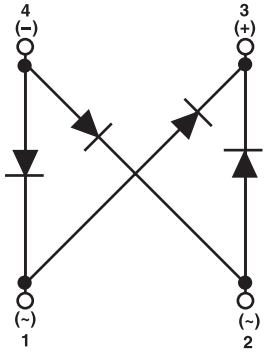
Maximun Rating

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°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°C at Rated DC Bolcking Voltage @T_J=125°C	I_R	5.0 500						µAmps
Tyical Junction Capacitance Per Element (Note2)	C_J	15						pF
Tyical Thermal Resistance (Note3)	$R_{\theta JA}$	75						°C/W
Operating Temperature Range	T_j	-55 to +150						°C
Storage Temperature Range	T_{stg}	-55 to +150						°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	Eqivalent Circuit Diagram
WD01	B1S	
WD02	B2S	
WD04	B4S	
WD06	B6S	
WD08	B8S	
WD10	B10S	

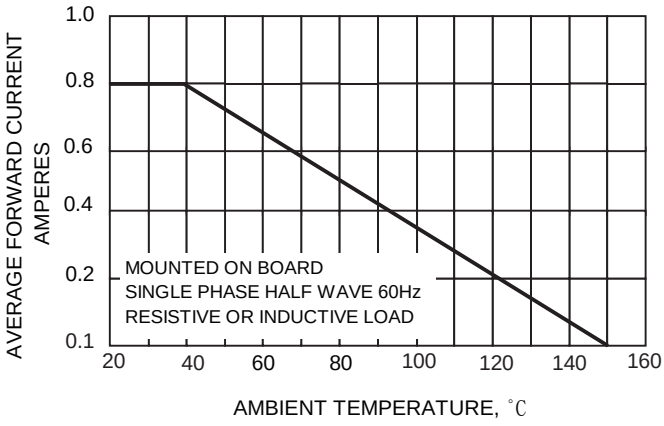


FIG.1-FORWARD CURRENT DERATING CURVE

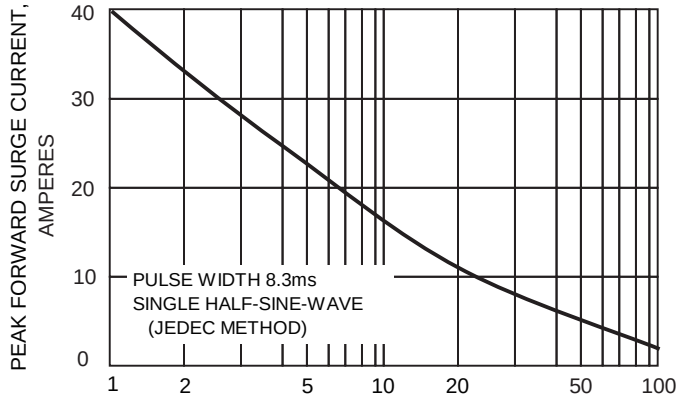


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

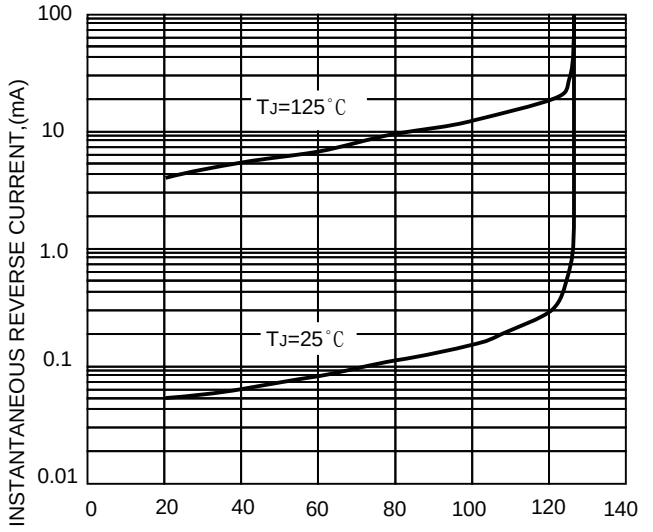


FIG.3-TYPICAL REVERSE CHARACTERISTICS

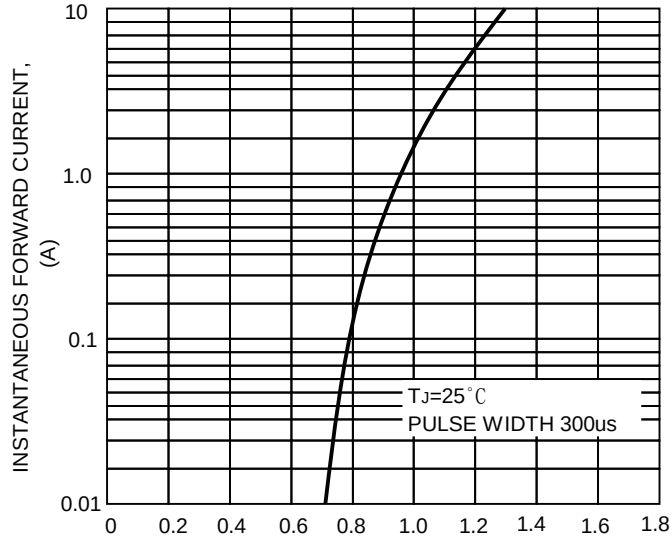


FIG.4-TYPICAL FORWARD CHARACTERISTICS

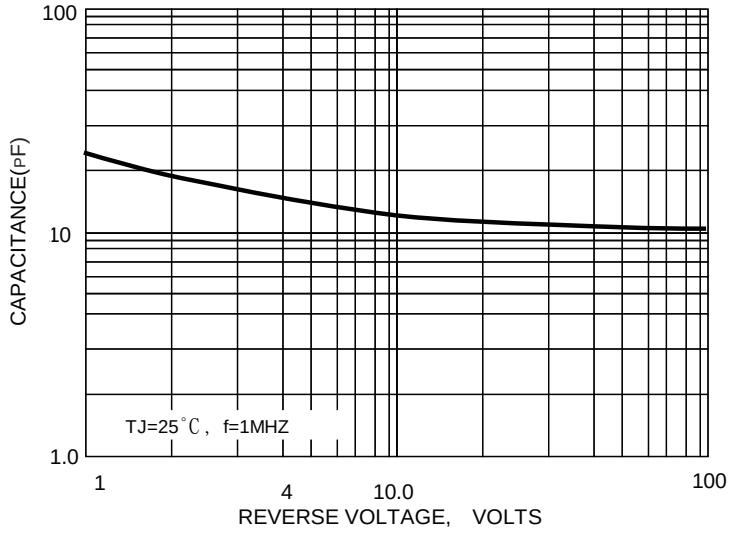


FIG.5-TYPICAL JUNCTION CAPACITANCE