WEITRON

WD01 thru WD10

Surface Mount
Glass Passivated Bridge Rectifiers

Lead(Pb)-Free

BRIDGE RECTIFIERS
0.5 AMPERES
100-1000 VOLTS

MINI-DIP

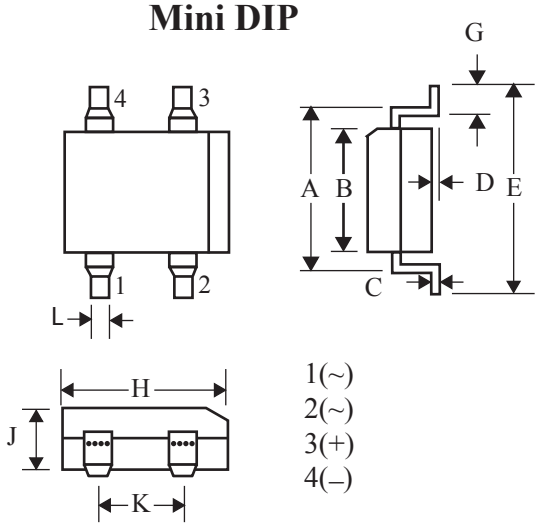
Features:
*Repetitive Peak Reverse Voltage : V_{PRRM}=100-1000 Volts
*Arerge Output rectified Current : Io=0.5A (T_A=30 °C)
*Dualin Line Type
*Glass Passivated Cavity-free Junction
*Plastic Package

Mecmanical Data:
*Polarity : Symbol Molded on Body
*Weight : 0.13 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

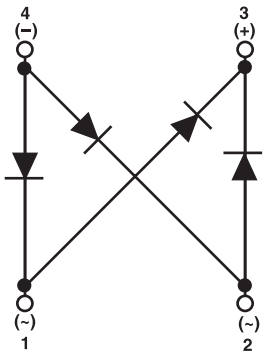
Maximun Rating

Characteristics	Symbol	WD01	WD02	WD04	WD06	WD08	WD10	Units
Repetitive Peak Reverse Voltage	V_{PRRM}	100	200	400	600	800	1000	Volts
Average Output Rectified Current (T_A=30°C)	I_o	0.5 0.8*						Amps
Peak One Cycle Surge Forward Curren(Non Repetitive)	I_{FSM}	30(50Hz) 33(60Hz)						Amps
Junction Temperature	T_j	-40 to 150						°C
Store Temperature	T_{stg}	-40 to 150						°C

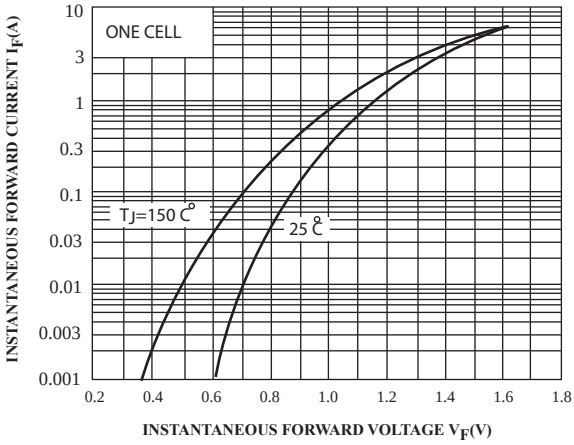
Electrical Characteristics (T_A=25°C)

Characteristics	Symbol	WD01	WD02	WD04	WD06	WD08	WD10	Units
Maximum Peak Forward Voltage at 0.4 A DC	V_F	1.0						Volts
Maximun Repetitive Peak Reverse Current (V_R=Rated)	I_R	10						µAmps
Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	130 75*						°C/W

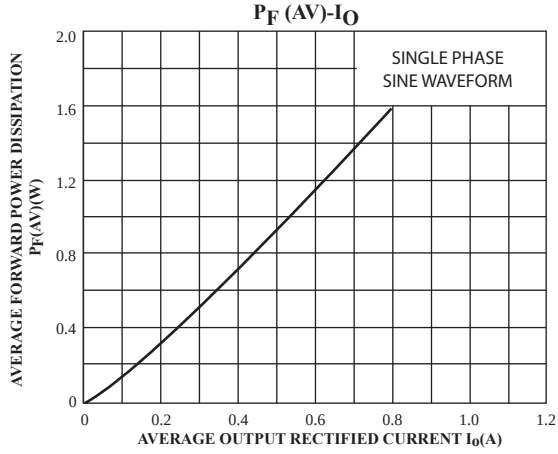
Device Marking

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

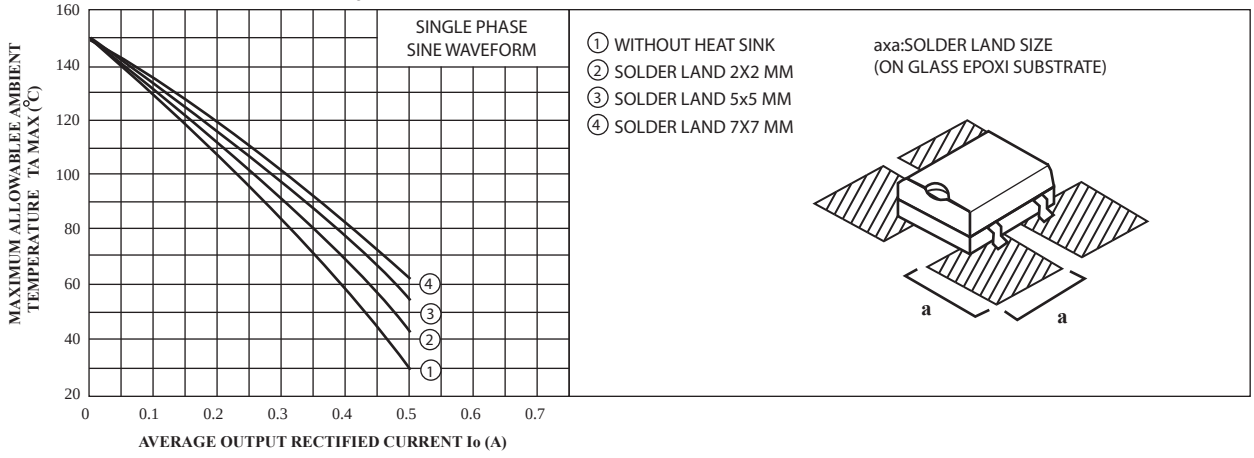
I_F-V_F



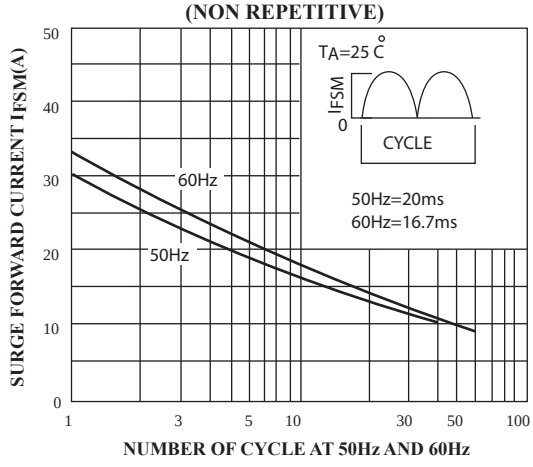
P_F (AV)-I_O



TA MAX- I_O



SURGE FORWARD CURRENT (NON REPETITIVE)



Rth (J-A)-T