GOODWORK

D3UB60 THRU D3UB100

SINGLE PHASE 3.0 AMP BRIDGE RECTIFIERS

FEATURES

* Ideal for printed circuit board
* Low forward voltage
* Low leakage current
* Polarity: marked on body
* Mounting position: Any

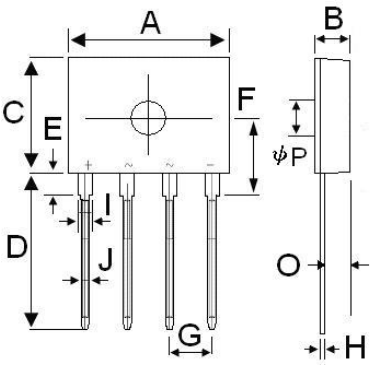
VOLTAGE RANGE

600 to 1000 Volts

CURRENT

3.0 Ampere

D3K



D3K		
Dim.	Min.	Max.
A	14.2	14.7
B	3.30	3.60
C	10.2	10.6
D	13.8	14.4
E	1.8	2.2
F	6.65	7.25
G	3.71	3.91
H	0.3	0.55
I	1.22	1.42
J	0.76	0.86
O	1.8	2.4
P	3.0Φ	3.4Φ
All Dimensions in millimeter		

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%.

	Symbols	D3UB60	D3UB80	D3UB100	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	**Volts**
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=50℃	$I_{(AV)}$	3.0			**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70			**Amp**
Maximum Forward Voltage at 3.0A DC and 25℃	V_F	1.1			**Volts**
Maximum Reverse Current at T_A=25℃ at Rated DC Blocking Voltage T_A=100℃	I_R	10.0 500			**uAmp**
Typical Junction Capacitance (Note 1)	C_J	25			**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30			**℃/W**
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	16			**℃/W**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150			**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.

RATING AND CHARACTERISTIC CURVES (D3UB60 THRU D3UB100)

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

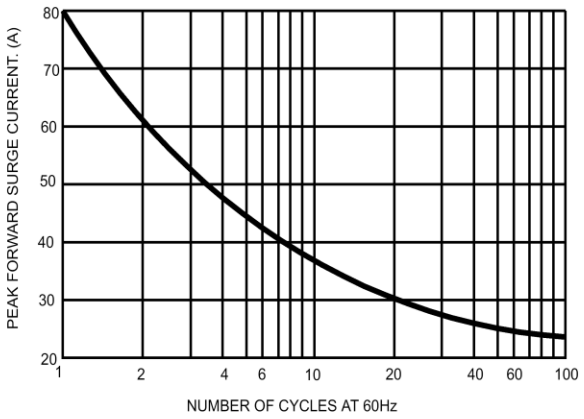


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

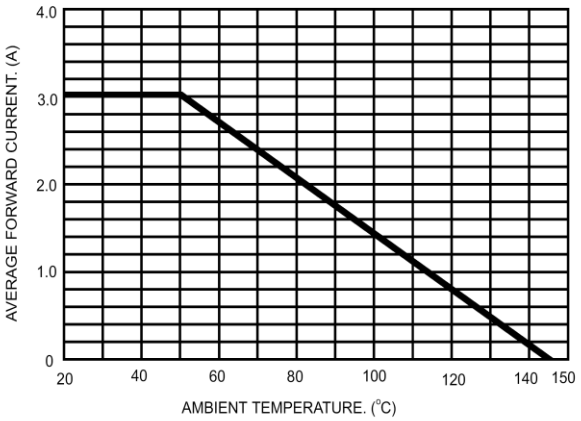


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

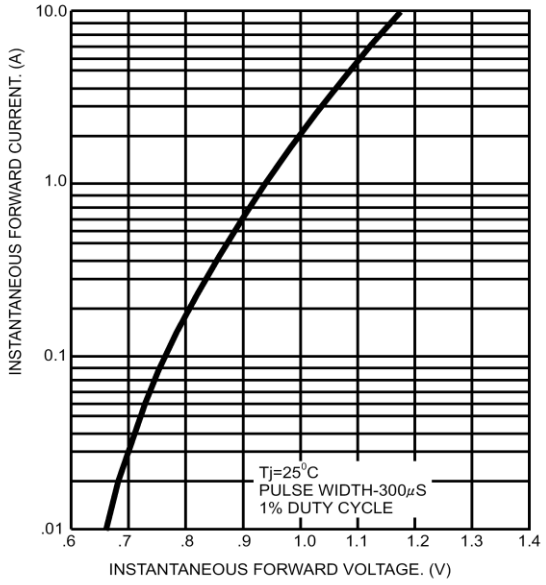


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT