

T4BU01 THRU T4BU10



SINGLE PHASE 4.0 AMP BRIDGE RECTIFIERS

FEATURES

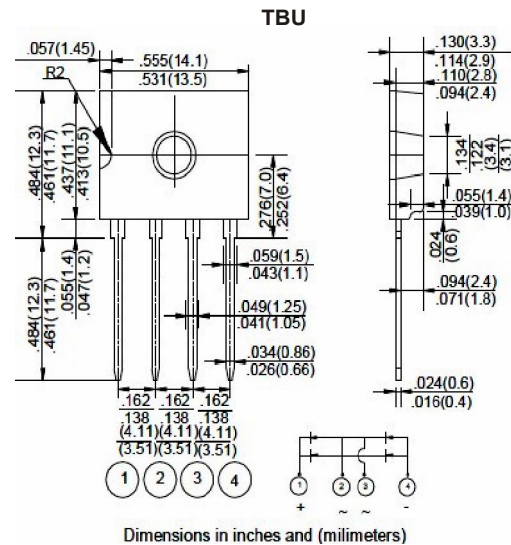
- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Polarity: marked on body
- * Mounting position: Any
- * Both normal and Pb free product are available:
- * Normal: 80~95%Sn, 5~20%Pb
- * Pb free: 99 Sn above can meet Rohs environment substance directive request

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

4.0 Ampere



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		T4BU01	T4BU02	T4BU03	T4BU04	T4BU06	T4BU08	T4BU10	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 Tc=50 °C		4.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		150							A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.		1.1							V
Maximum DC Reverse Current Ta=25°C		2.0							uA
at Rated DC Blocking Voltage Ta=100°C		500							uA
Operating Temperature Range, Tj		-50 — +150							°C
Storage Temperature Range, TSTG		-50 — +150							°C
I²t Rating for fusing (t<8.3ms)		20.0							A²sec
Typical Junction Capacitance per leg (Note 1)		25							PF
Typical Thermal Resistance per leg (Note 2)	RθJA	34							°C/w
	RθJL	15							

NOTES

1. Measured at 1.0MHZ and applied reverse voltage of 4.0 volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.47*0.47(12*12mm)copper pads.

RATING AND CHARACTERISTIC CURVES (T4BU01 THRU T4BU10)

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

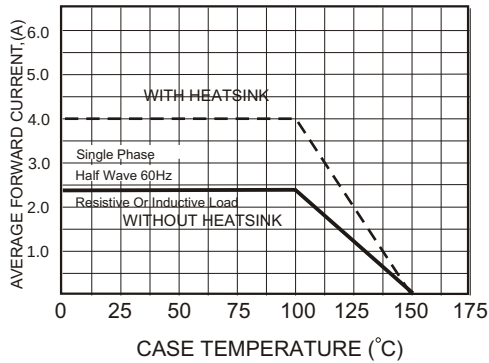


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

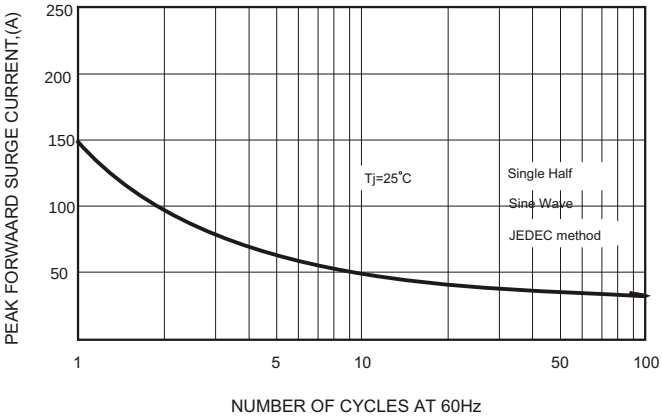


FIG.3-TYPICAL FORWARD CHARACTERISTICS

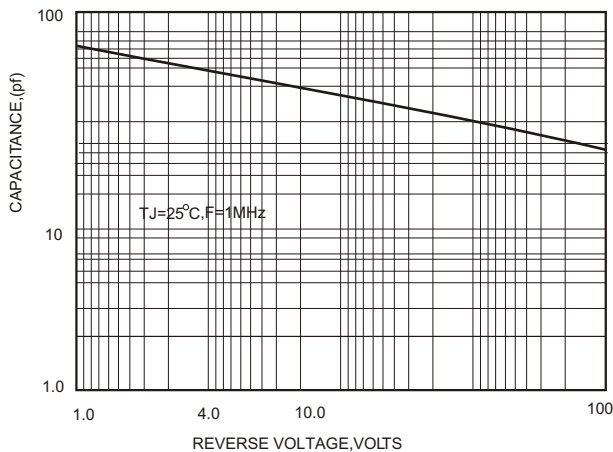


FIG.4-TYPICAL REVERSE CHARACTERISTICS

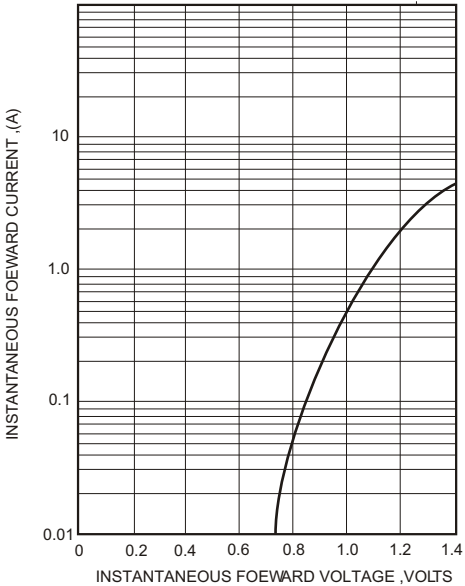


FIG.5-TYPICAL REVERSE
CHARACTERISTICS

