



BT05S THRU BT10S

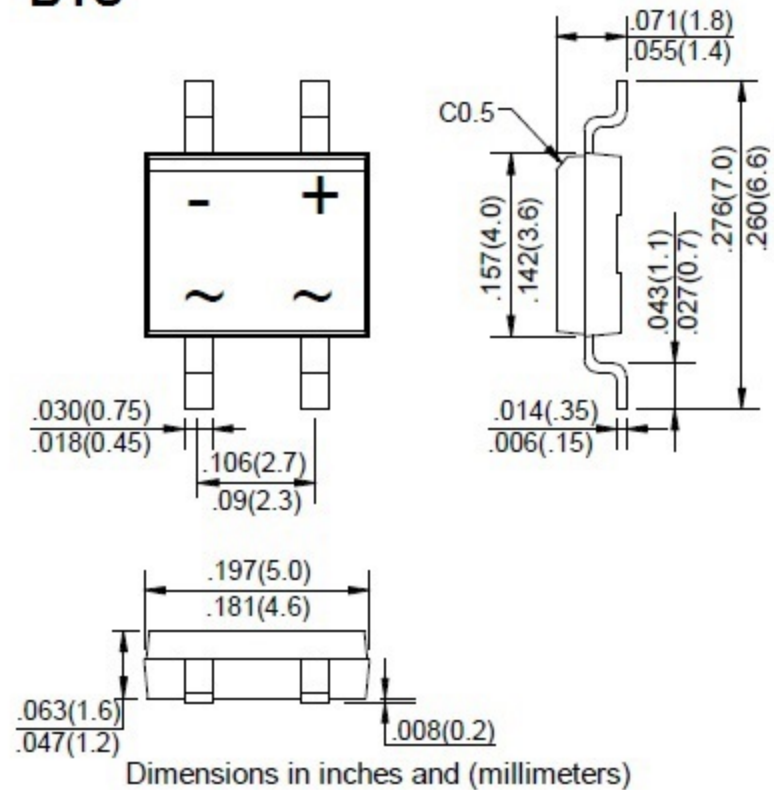
SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 to 1000 VOLTS
CURRENT: 0.8 AMPERES

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

BTS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

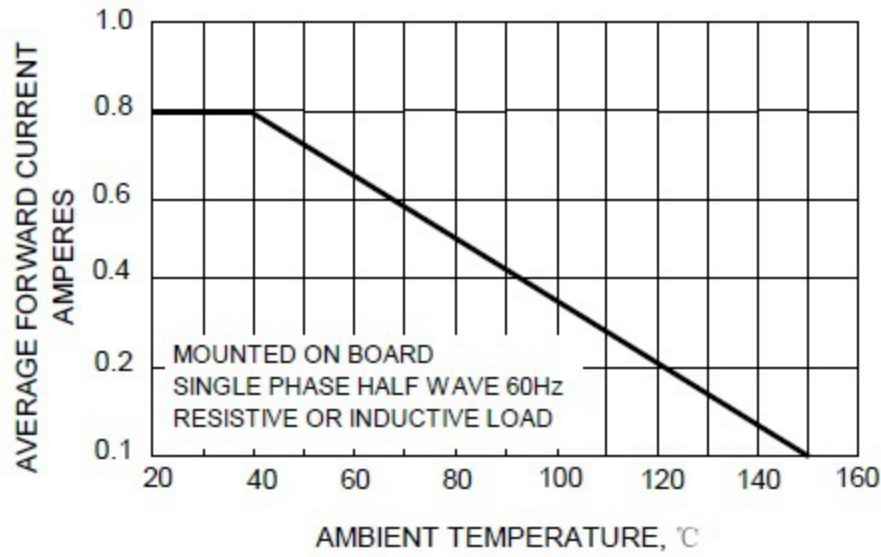
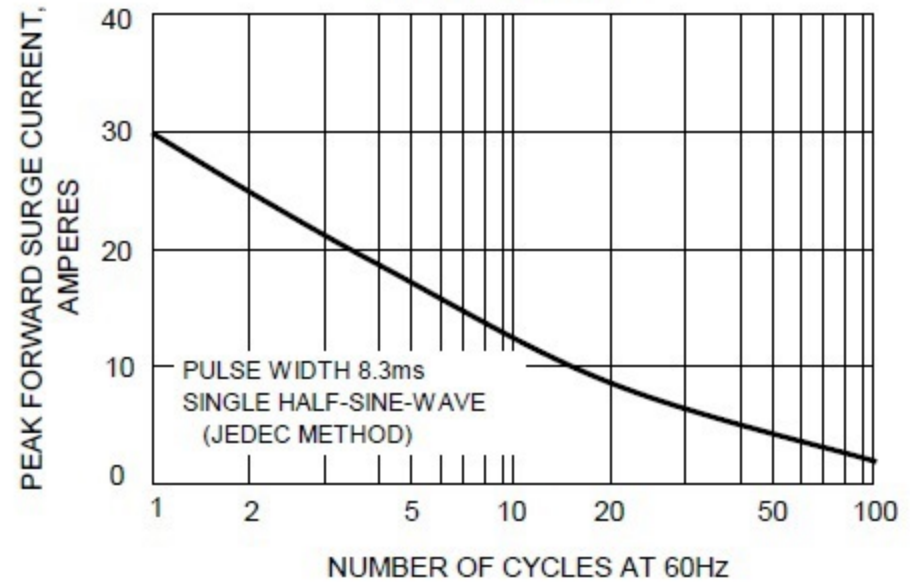
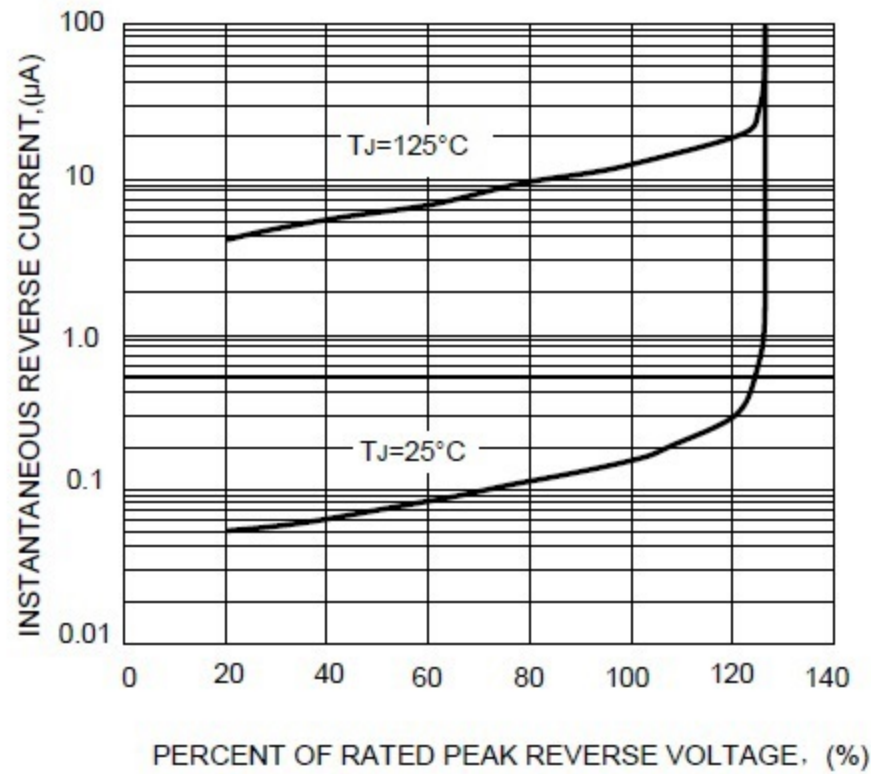
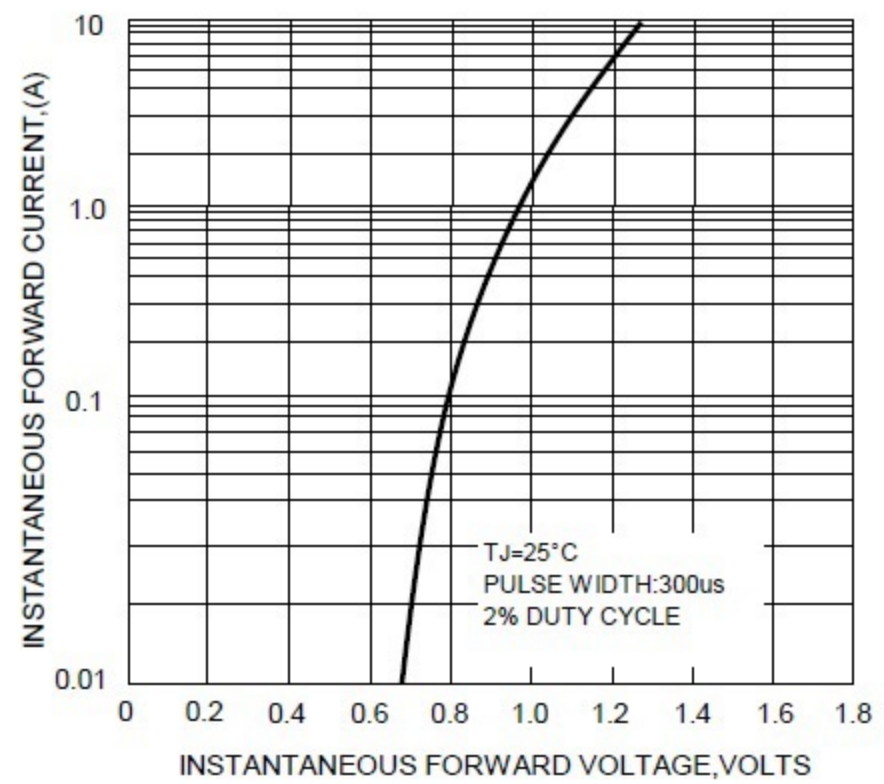
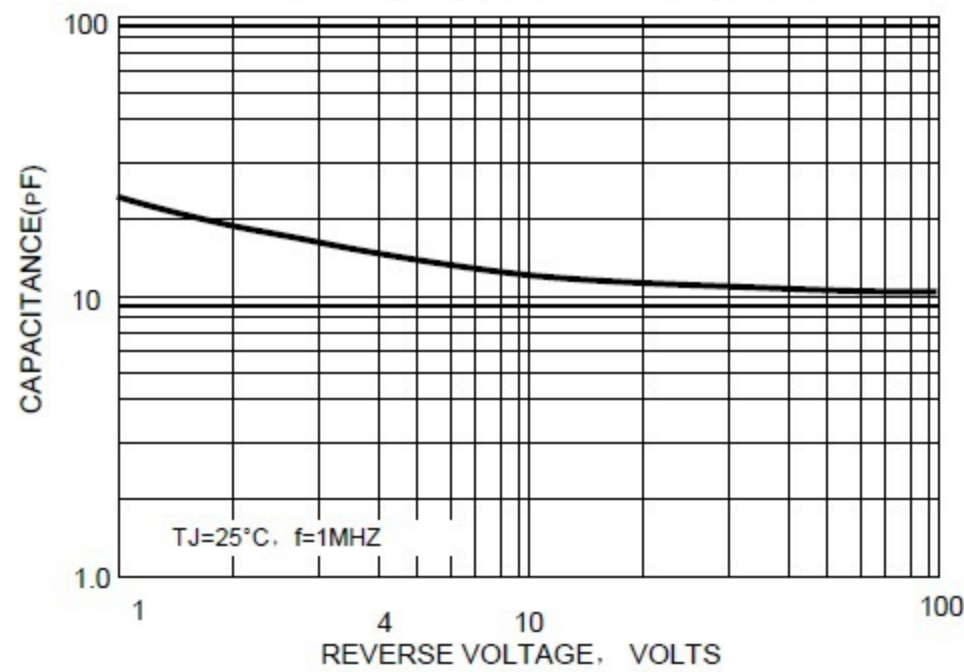
CHARACTERISTICS	SYMBOL	BT05S	BT1S	BT2S	BT4S	BT6S	BT8S	BT10S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @T _A =40 °C	I _(AV)	0.8							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30							A
Peak Forward Voltage at 0.8A DC	V _F	1.1							V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =125°C	I _R	5.0 500							μA
Typical Junction Capacitance Per Element (Note2)	C _J	15							pF
Typical Thermal Resistance (Note3)	R _{θJC}	75							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

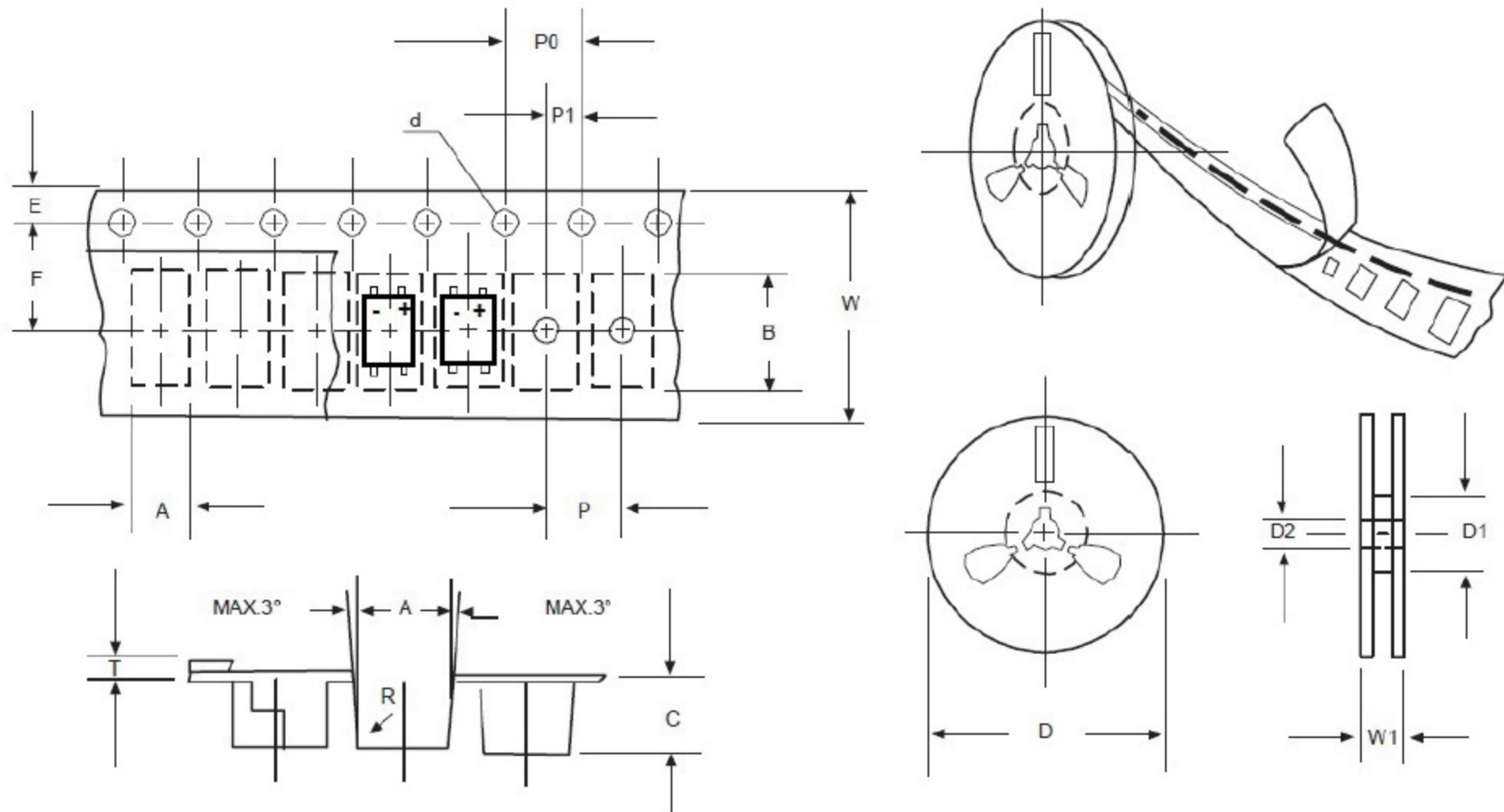
NOTES:1.Mounted on P.C. board.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to case



RATING AND CHARACTERISTIC CURVES
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


REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-FLAT MELF (BTS)

Fig: Configuration of FLAT MELF TAPING

ITEM	SYMBOL	BTS mm(inch)
Carrier width	A	5.31±0.1(0.209±0.004)
Carrier length	B	7.20±0.1(0.283±0.004)
Carrier depth	C	1.65±0.1(0.650±0.004)
Sprocket hole	d	1.5±0.1(0.059±0.004)
Reel outside diameter	D	265±5.0(13±0.197)
Reel inner diameter	D1	70±5(2.755±0.197)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Sprocket hole position	E	1.75±0.1(0.069±0.004)
Punch hole position	F	5.50±0.05(0.217±0.002)
Punch hole pitch	P	8.0±0.1(0.546±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)
Total tape thickness	T	0.30±0.05(0.012±0.002)
Tape width	W	12.0±0.15(0.472±0.0059)
Reel width	W1	16.8±2.0(0.661±0.079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA. (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
BTS	13"	5,000	4.1	10,000	339*339*39	330	365*365*360	80,000	15.0