LITE-ON SEMICONDUCTORS

TT206 thru TT210

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 2.0 Ampere

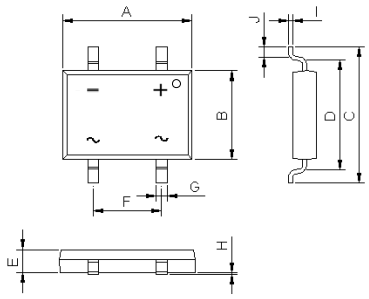
FEATURES

- **Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)**
- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94-0

MECHANICAL DATA

- Polarity indicator: As marked on body
- Weight: 297m grams

TT



TT		
DIM	MIN	MAX
A	9.45	9.75
B	6.30	6.75
C	9.75	10.05
D	7.85	8.15
E	1.4	1.6
F	4.9	5.1
G	0.7	0.9
H	0.1	0.2
I	0.15	0.35
J	0.45	0.95
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	TT206	TT208	TT210	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Rectified Current @TA = 25 ℃	$I_{(AV)}$	2.0			A
Peak Forward Surge Current 8.3ms single half sine-wave @ Tj = 25 ℃	I_{FSM}	60			A
Maximum Forward Voltage at 2.0A DC @ T_J = 25℃ @ T_J = 125℃	V_F	1.1 0.85 (Typ.)			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T_J = 25℃ @ T_J = 125℃	I_R	5 500			uA
I^2t Rating for fusing (1ms < t < 8.3ms)	I^2t	14.8			A^2S
Typical Junction Capacitance (Note 1)	C_J	25			pF
Typical Thermal Capacitance (Note 2)	$R\Theta_{JC}$ $R\Theta_{JL}$ $R\Theta_{JA}$	7.5 16 27			°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150			°C

Note :

(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft^2_ 19 x 19 mm copper pad.

RATING AND CHARACTERISTIC CURVES
TT206 to TT210

FORWARD CURRENT DERATING CURVE

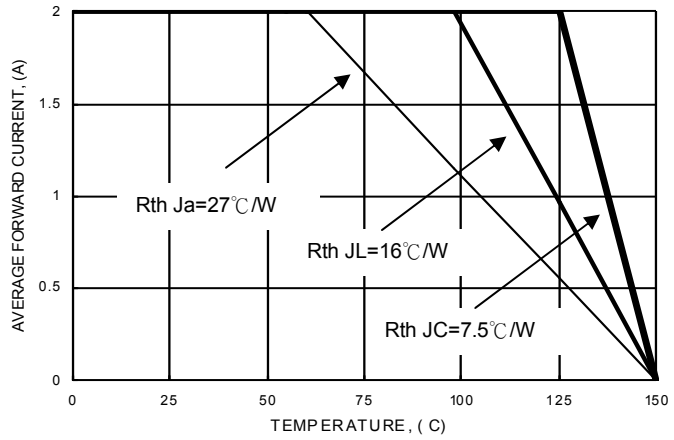


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

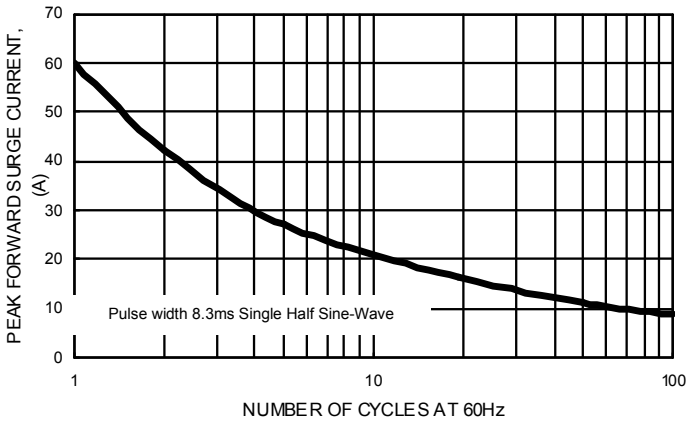


FIG.3- TYPICAL FORWORD CHARACTERISTICS

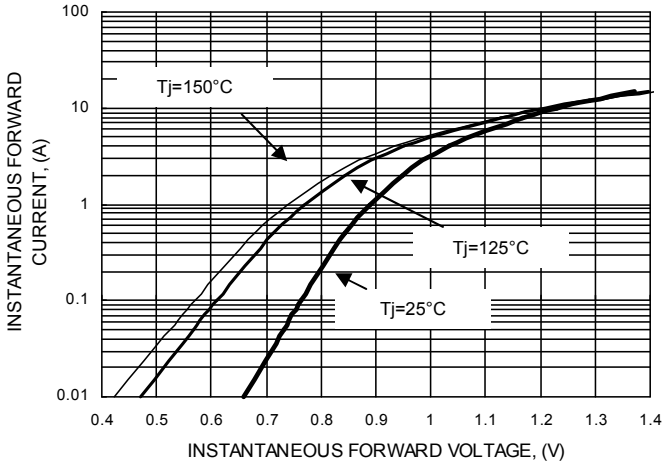


FIG.4- TYPICAL JUNCTION CAPACITANCE

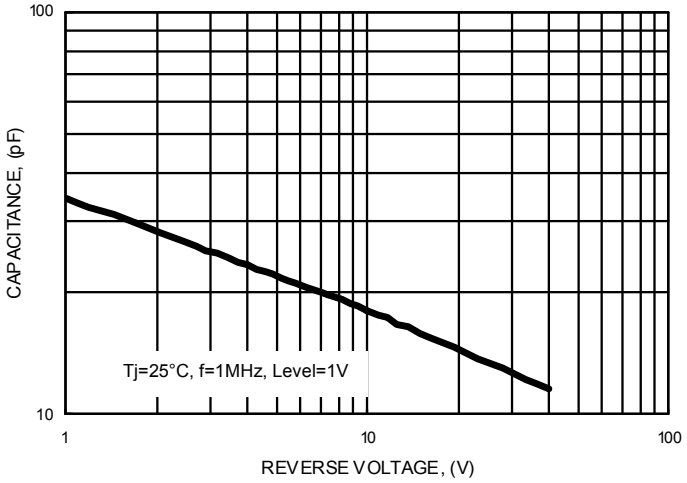
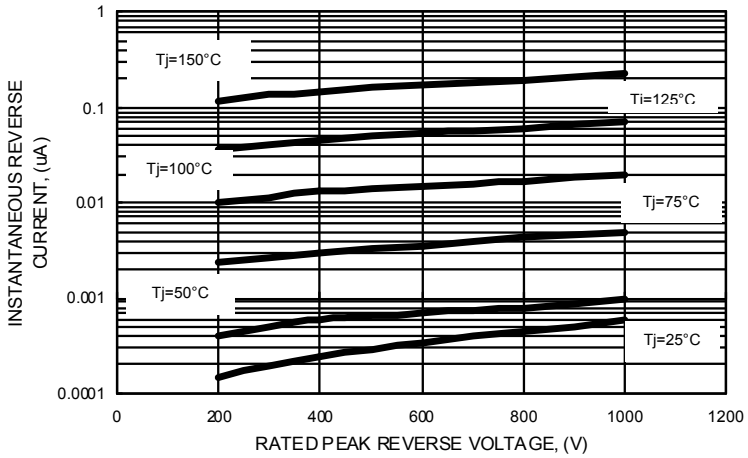


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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