LITEON LITE-ON SEMICONDUCTORS

GBU15L06

Ρ

1.90 RADIUS

All Dimensions in millimeter

REV. 4, Sep-2012, KBDJ09

GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 15 Amperes				
FEATURES• Low forward voltage drop	GBU				
Ideal for printed circuit board	GBU				
	DIM. MIN. MAX.				
 High surge current capability 	A 21.80 22.30				
 UL recognition file # E95060 	A B 18.30 18.80				
	C 3.30 3.56				
	G H H 17.50 18.00				
	\mathbf{Y} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{E} 0.76 1.00				
	P = - 0 $ 1$ $P = - 0.46$ 0.56				
MECHANICAL DATA	J J G 7.40 7.90				
	<u>- ~ ~ + ▼</u> H 3.50 4.10				
• Case: GBU					
 Case Material: Plastic material, UL flammability 	K J 2.25 2.75				
classification 94V-0	L► < K 1.95 2.35				
 Moisture Sensitivity: Level 1 per J-STD-020C 	L 1.02 1.27				
Terminals: Lead free plating (Tin finish),	M 4.83 5.33				
Solderable per MIL-STD-202, Method 208	M F N 7.0° TYPICAL				
Polarity indicator: As marked on the body	O 3.2 × 45°				

- Polarity indicator: As marked on the body
- Weight: 0.15 ounces, 4.0 grams
- Component in accordance to RoHs 2002/95/EC

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

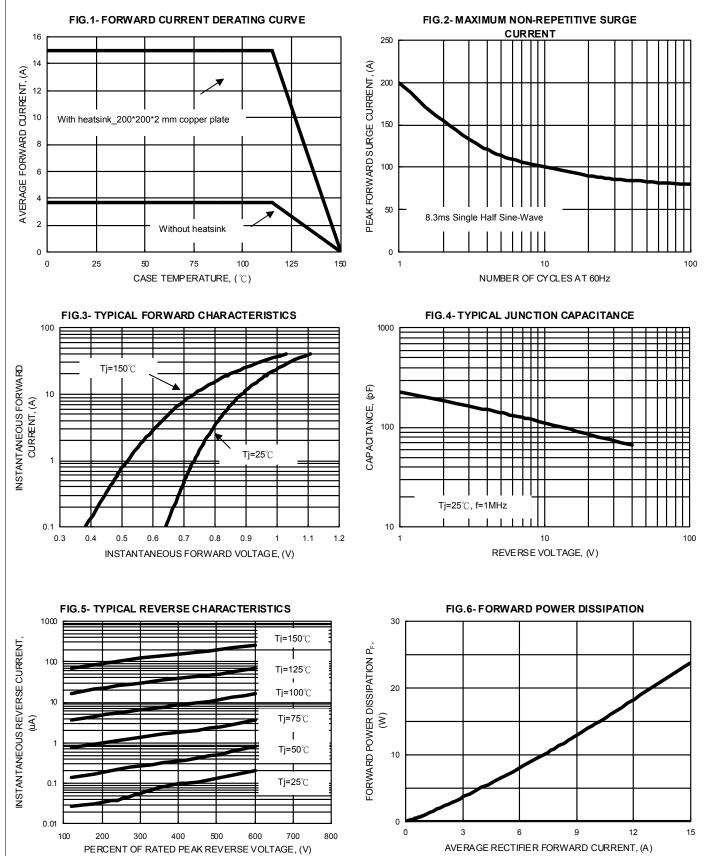
PARAMETER			SYMBOL	GBU15L06			UNIT
Device marking code			Note	GBU15L06			
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	600		V	
Average Rectified Output Current With heatsink Tc=115 $^\circ\!\!\mathbb{C}$ Without heatsink Tc=115 $^\circ\!\!\mathbb{C}$			I _{F(AV)}	15 3.7			А
Peak Forward Surge Current@ Tj = 25 $^{\circ}$ C8.3ms single half sine-wave@ T _J = 125 $^{\circ}$ C			I _{FSM}	200 170			A
Peak Forward Surge Current 1.0ms single half sine-wave	@ Tj =25 °C @ T _J =125°(I _{FSM}	550 450		А	
$I^{2}t$ Rating for fusing (3ms \leq t \leq 8.3ms)		l ² t	166		A ² S		
Storage temperature range			T _{STG}	-55 to +150			°C
Operating junction temperature range		TJ	-40 to +150			°C	
PARAMETER	TEST CONDITIONS		SYMBOL	Min.	Тур.	Max.	UNIT
Breakdown voltage	IR=10uA	Tj=25°C	VB	600			V
Forward Voltage (1)	IF=7.5A	Tj=25°C	V _F		0.86	0.90	V
Leakage Current	VR=600V	Tj=25°C	I _R			10	uA
THERMAL CHARACTERISTIC		SYMBOL	Typical			UNIT	
Typical Junction Capacitance per element (Note 1)		Cj	80			pF	
Typical thermal resistance_Junction to Case (2)			R⊖ _{JC}	1.3			°C/W
Typical thermal resistance_Junction to Lead (3)			R⊖ _{JL}	3			°C/W
lata : (1) 200 va Dulaa Width 20/			•				

Note : (1) 300us Pulse Width, 2% Duty Cycle.

(2) Thermal Resistance Junction to Case, device mounted on 200 x 200 x 2 mm copper plate.

(3) Thermal Resistance Junction to Lead, device mounted on 200 x 200 x2 mm copper plate.

RATING AND CHARACTERISTIC CURVES GBU15L06



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LITEON

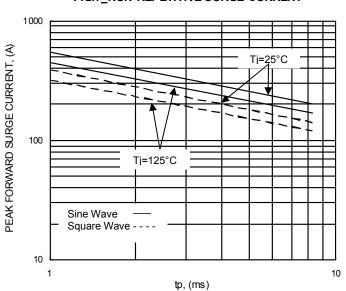


FIG.7_NON-REPETITIVE SURGE CURRENT



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