



UL recognition, file #E230084
based on silicon planar process
Ideal for printed circuit boards
High surge current capability
Low VF
Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave Rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

: GBU

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

As marked on body

($T_a=25$ Unless otherwise specified)

Device marking code			GBUU1506	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600	
Maximum RMS Voltage	VRMS	V	420	
Maximum DC blocking Voltage	VDC	V	600	
Average rectified output current @60Hz sine wave, R-load	With heatsink $T_c = 110$	IO	A	15.0
	Without heatsink $T_a = 25$			3.5
Forward Surge Current (Non-repeti)(Non- V				
Current squared time @1ms $t \leq 8.3ms$ $T_j=25$, Rating of per diode	I^2t	A ² S	200.9	
Storage temperature	T_{stg}		-55 ~ +150	
Junction temperature	T_j		-55 ~ +150	
Dielectric strength @ terminals to case, AC 1 minute	V_{dis}	KV	2.5	
Mounting torque @ recommend torque 5kg cm	T_{or}	kg cm	8.0	



$T_a=25$ Unless otherwise specified

Instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=7.5A$	0.80	0.88	0.92
DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25$	-	0.08	5
			$T_j=125$	-	2.5	50
Junction capacitance	C_j	μF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	64	128	250

Unless otherwise specified

Thermal Resistance	Between junction and ambient, Without heatsink	R J-A	/W	25.0	
	Between junction and case, With heatsink	R J-C		1.4	
	Between junction and Lead With heatsink	R J-L		5	



Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54



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