



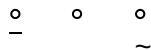
Super Fast Recovery Bridge Rectifiers

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

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.



Mechanical Data

- Packag

		RMS	V	420
Maximum DC blocking Voltage		V _{DC}	V	600
Average rectified output current @60Hz sine wave, R-load	With heatsink T _c = 85	I _O	A	35
	Without heatsink T _a = 25			3.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j = 25	I _{FSM}	A		350
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j = 25				700
Current squared time @1ms ≤ t ≤ 8.3ms T _j = 25, Rating of per diode	I ² t	A ² S		506
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

dz V ! z V a a Ω dz V t z V Ω E Q m ! z H Y



EGBU3506

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EGBU3506
Maximum reverse recovery time	T_{RR}	ns	$I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$	35
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=17.5A$	2.0
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25$	5
			$T_j=125$	100
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	175

■Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	EGBU3506
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18.0
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.5

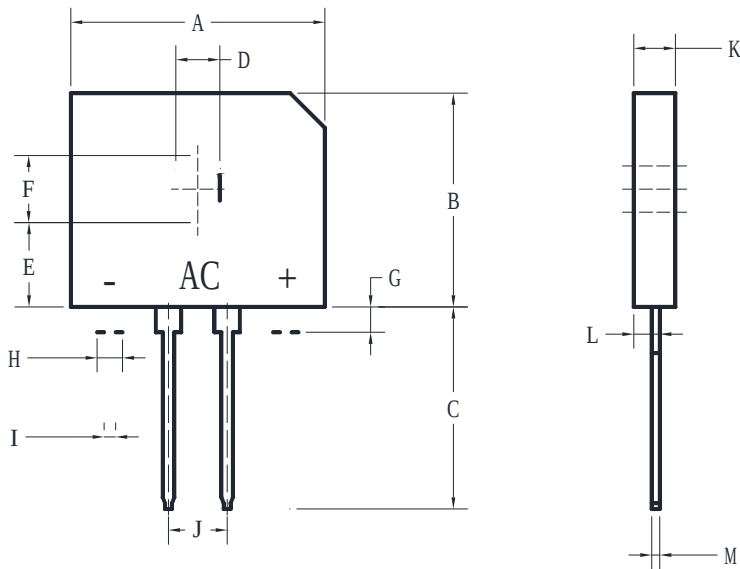
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
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EGBU3506

■ Outline Dimensions



Dimensions in millimeters

GBU		
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
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with