

FRD Type : ECU06B60

OUTLINE DRAWING

6A 600V 27ns

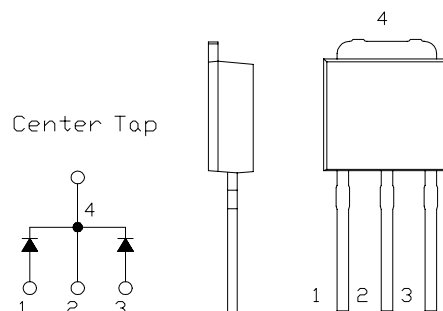
FEATURES

- * TO-251AA Case
- * Ultra – Fast Recovery
- * Low Power Loss

APPLICATIONS

For Power Factor Improvement

High Frequency Rectification



Maximum Ratings

Approx Net Weight:0.35g

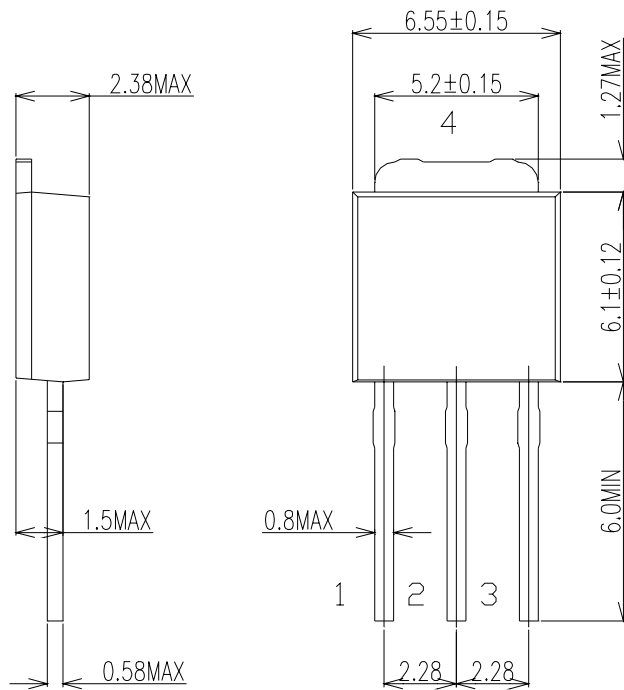
Rating		Symbol	ECU06B60			Unit
Repetitive Peak Reverse Voltage		V _{RRM}	600			V
Average Rectified Output Current	P.C.Board mounted *1	I _O	1.1	Ta=25°C	50Hz Full Sine Wave Resistive Load	A
	-		6.0	Tc=77°C		
RMS Forward Current		I _{F(RMS)}	6.66			A
Surge Forward Current		I _{FSM}	35	50Hz Full Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range		T _{jw}	- 40 to + 150			°C
Storage Temperature Range		T _{stg}	- 40 to + 150			°C

Electrical • Thermal Characteristics

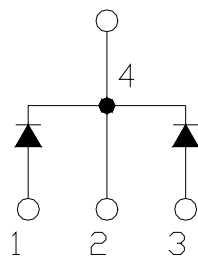
Characteristics		Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current		I_{RM}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	20	μA
Peak Forward Voltage		V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}= 3 \text{ A}$ per Arm	-	2.2	2.7	V
Reverse Recovery Time		t_{rr}	$I_{FM}= 3 \text{ A}$, $-di/dt= 50 \text{ A}/\mu\text{s}$, $T_a= 25^{\circ}\text{C}$	-	17	27	ns
Thermal Resistance	Junction to Ambient	$R_{th(j-a)}$	P.C.Board mounted *1	-	-	80	$^{\circ}\text{C}/\text{W}$
	Junction to Case	$R_{th(j-c)}$	-	-	-	5	$^{\circ}\text{C}/\text{W}$

* Print Land = 20x20 mm

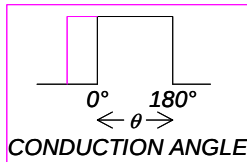
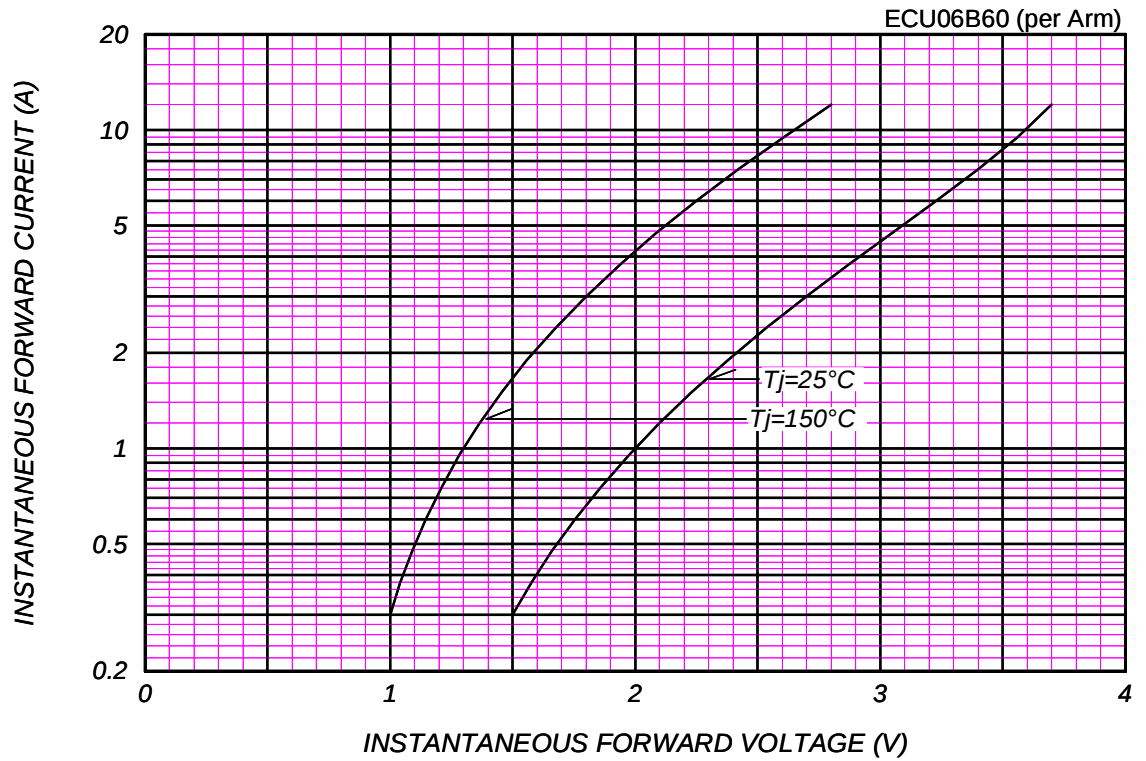
ECU06B60 OUTLINE DRAWING (Dimensions in mm)



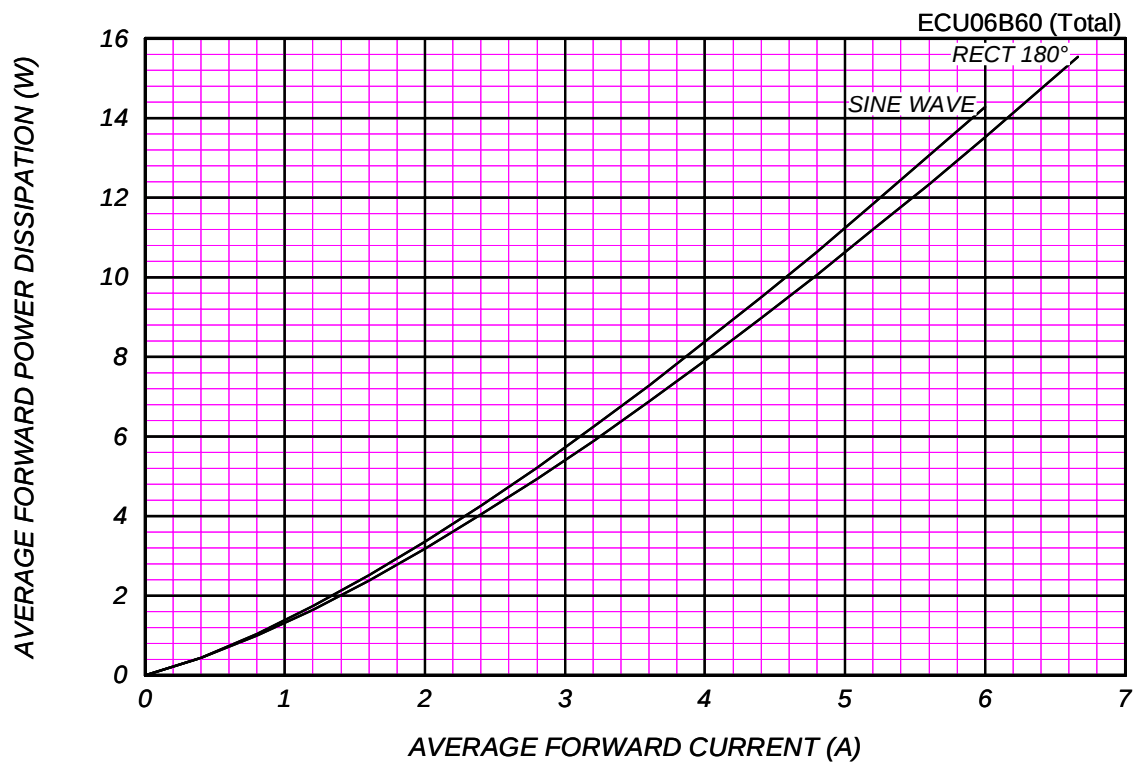
Center Tap



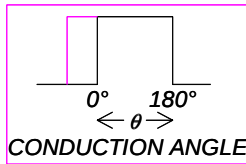
FORWARD CURRENT VS. VOLTAGE



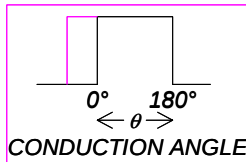
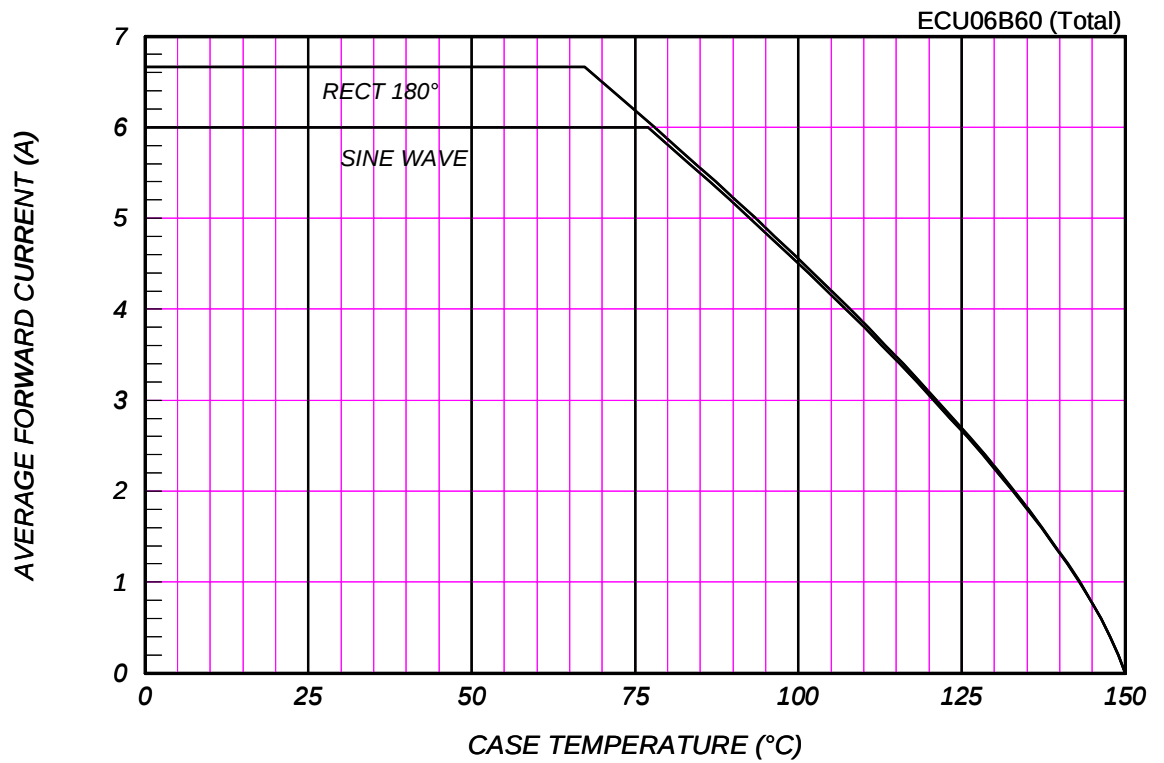
AVERAGE FORWARD POWER DISSIPATION



RECT 180°

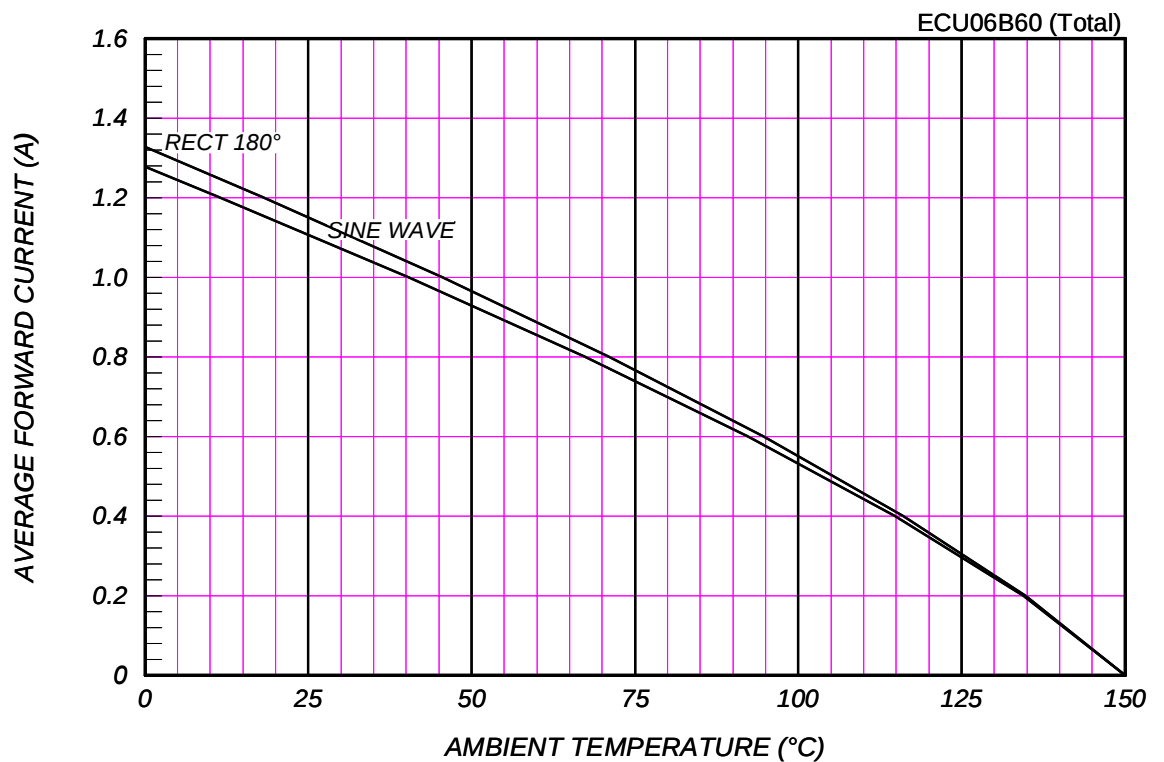


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

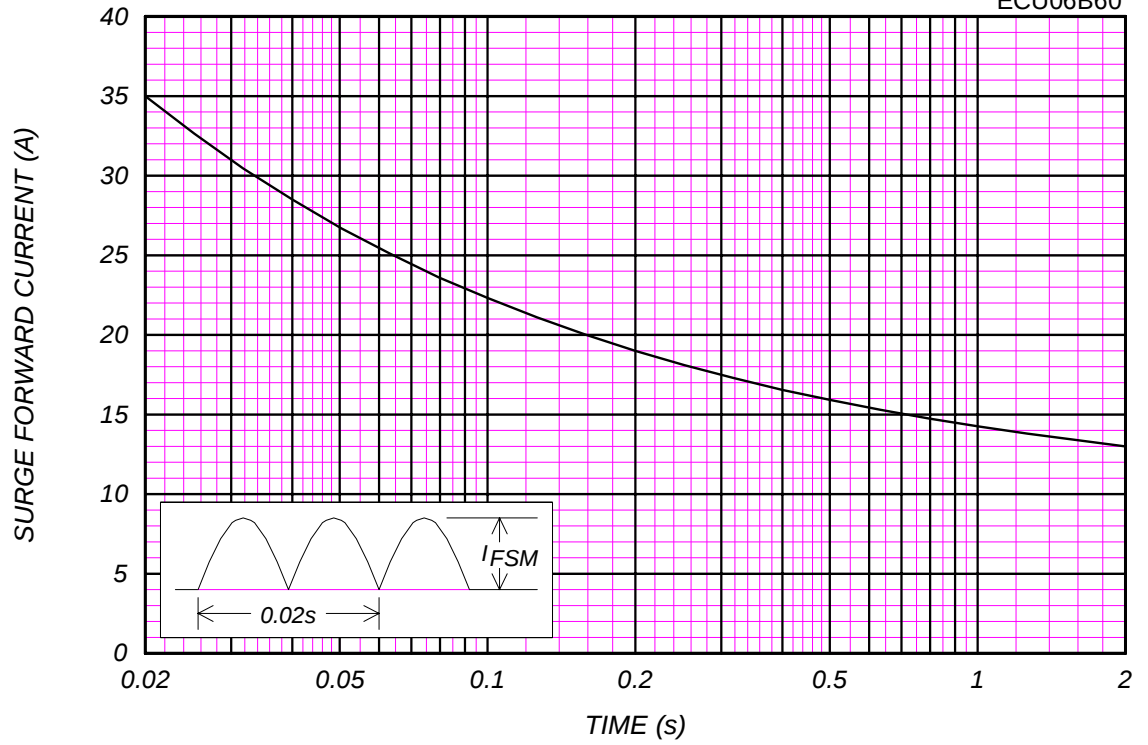
P.C. Board mounted(Print land=20×20mm)



SURGE CURRENT RATINGS

f=50Hz,Sine Wave,Non-Repetitive,No Load

ECU06B60



RMS SURGE CURRENT RATINGS

Ta=40°C,Non-Repetitive,No Load

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