

FRD Type : ECU06B60-F

OUTLINE DRAWING

6A 600V 27ns

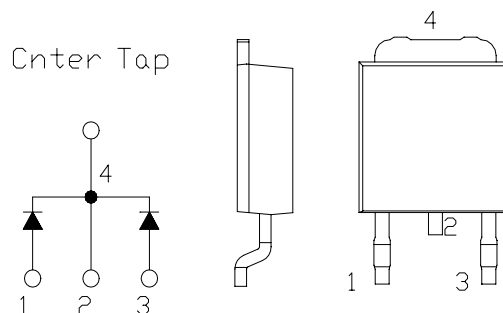
FEATURES

- * TO-252 Case Surface Mounting Type
- * Ultra – Fast Recovery
- * Low Power Loss

APPLICATIONS

For Power Factor Improvement

High Frequency Rectification



Maximum Ratings

Approx Net Weight:0.30g

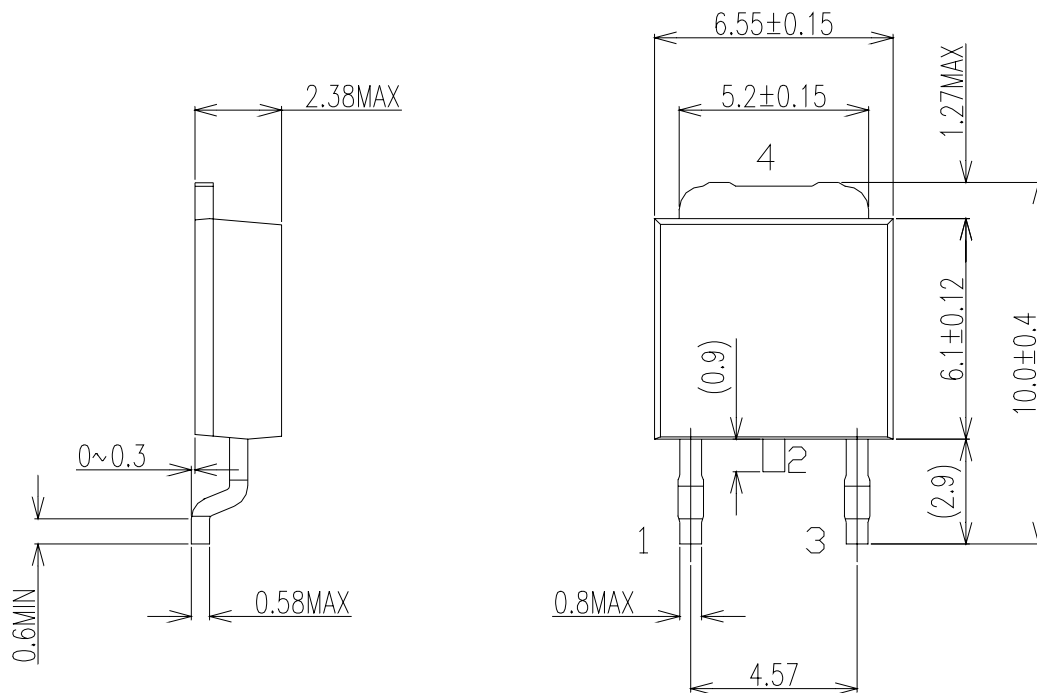
Rating		Symbol	ECU06B60			Unit
Repetitive Peak Reverse Voltage		V _{RRM}	600			V
Average Rectified Output Current	P.C.Board mounted *1	I _O	1.1	Ta=25°C	50Hz Full Sine Wave Resistive Load	A
	-		6.0	Tc=77°C		
RMS Forward Current		I _{F(RMS)}	6.66			A
Surge Forward Current		I _{FSM}	35	50Hz Full Sine Wave,1cycle,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

Electrical • Thermal Characteristics

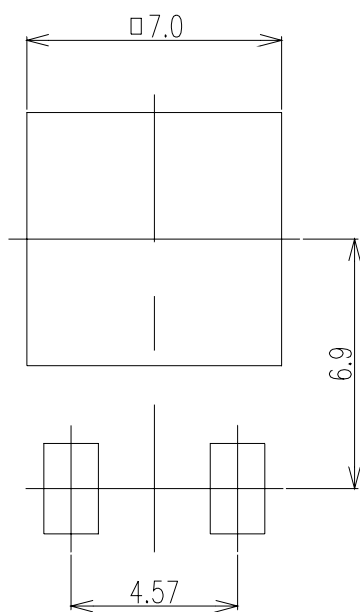
Characteristics		Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current		I_{RM}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	20	μA
Peak Forward Voltage		V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}= 3 \text{ A}$ per Arm	-	2.2	2.7	V
Reverse Recovery Time		t_{rr}	$I_{FM}= 3 \text{ A}$, $-di/dt= 50 \text{ A}/\mu\text{s}$, $T_a= 25^{\circ}\text{C}$	-	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

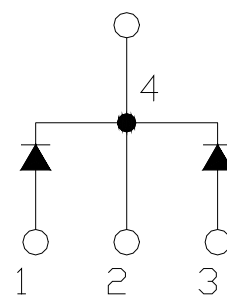
ECU06B60-F OUTLINE DRAWING (Dimensions in mm)



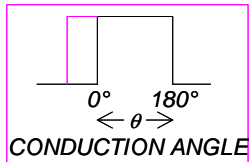
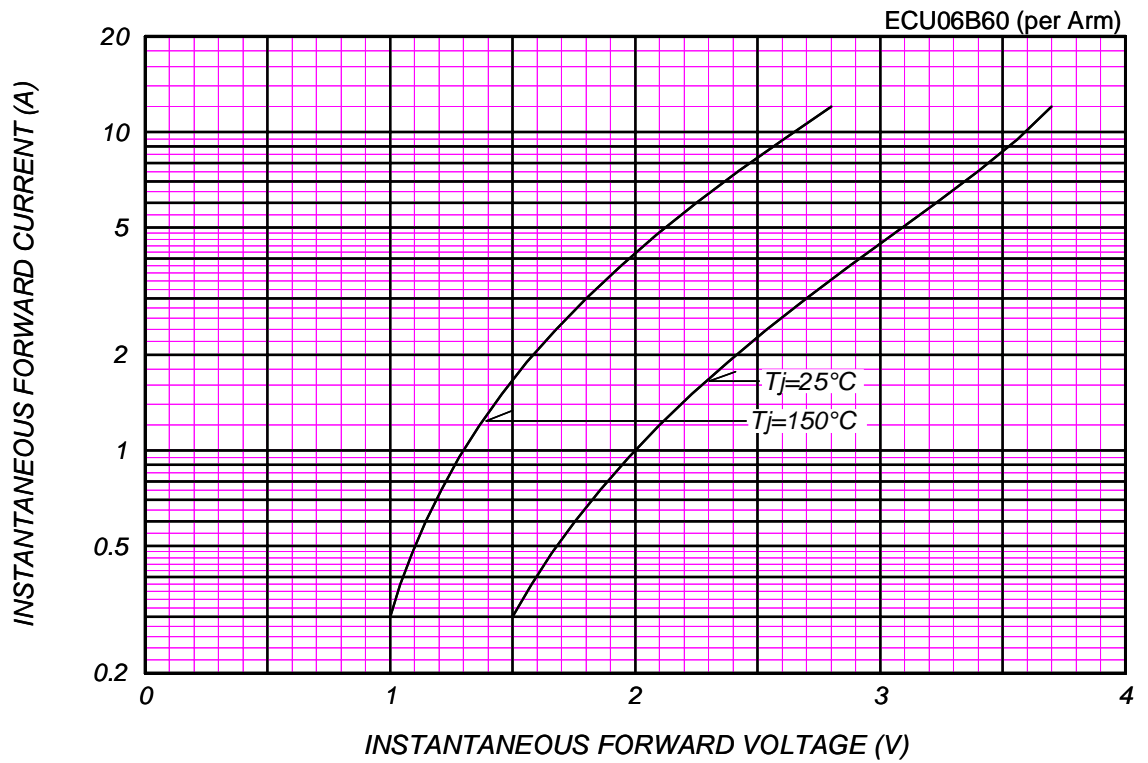
SOLDERING PAD



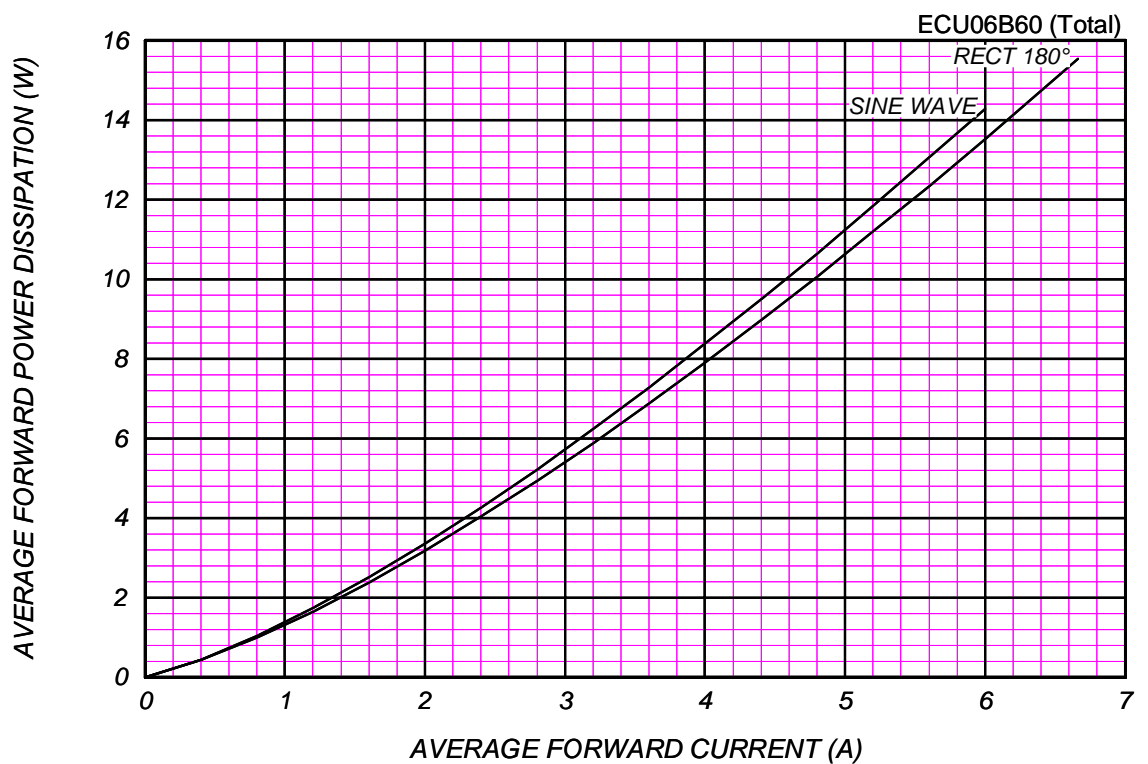
Center Tap

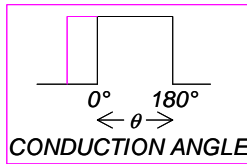


FORWARD CURRENT VS. VOLTAGE

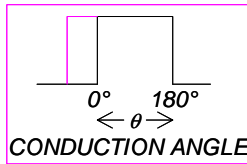
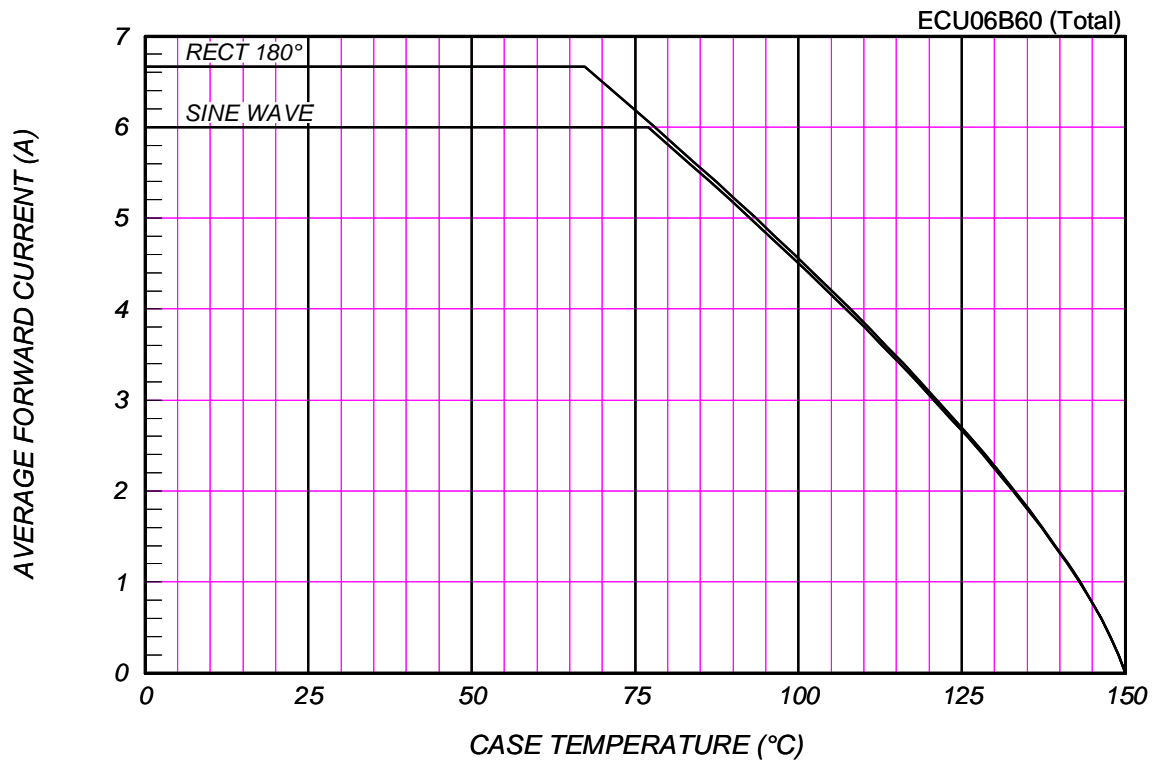


AVERAGE FORWARD POWER DISSIPATION



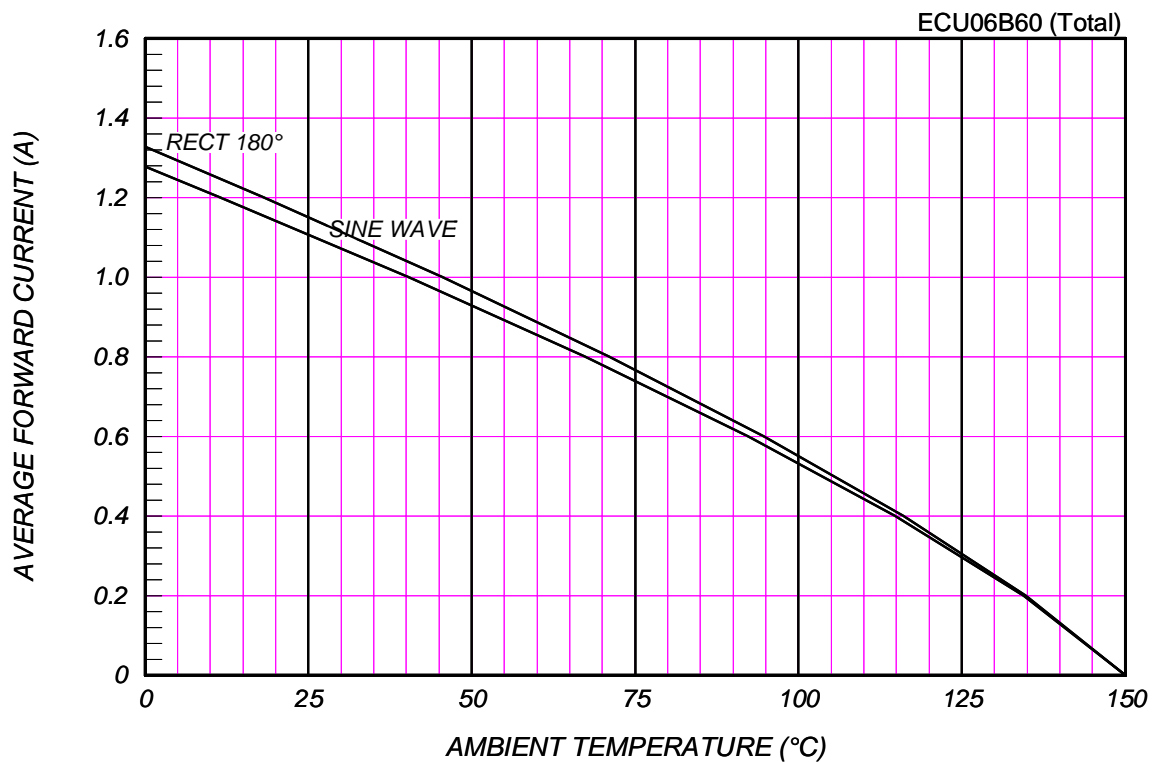


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

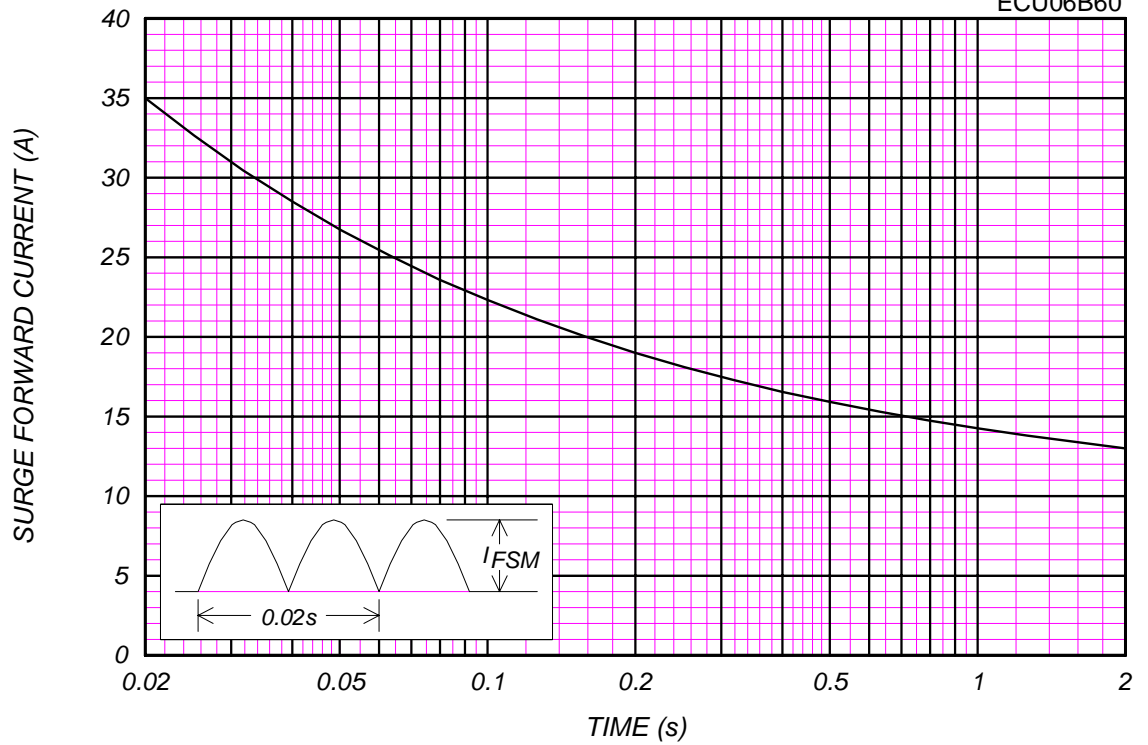
P.C. Board mounted(Print land=20×20mm)



SURGE CURRENT RATINGS

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

ECU06B60



RMS SURGE CURRENT RATINGS

Ta=40°C,Non-Repetitive,No Load

ECU06B60

