

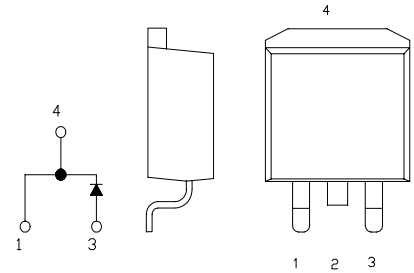
FRD Type : TSU05A60

OUTLINE DRAWING

For Power Factor Improvement High Frequency Rectification

FEATURES

- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability



Maximum Ratings

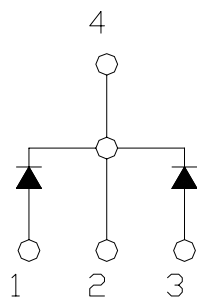
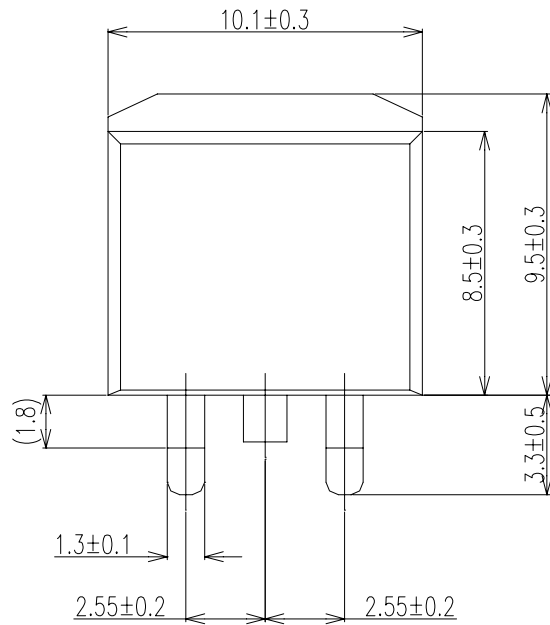
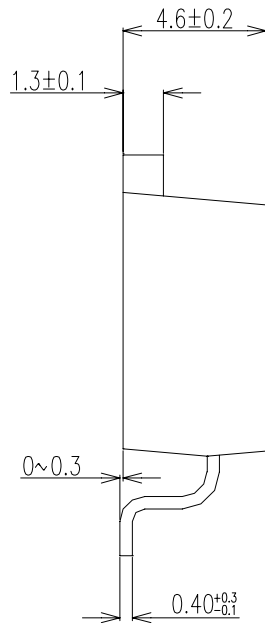
Approx Net Weight:1.45g

Rating	Symbol	TSU05A60			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600			V
Average Rectified Output Current	I _O	5	Tc=95℃	50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	15.7			A
Surge Forward Current	I _{FSM}	70	50 Hz Half Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			℃
Storage Temperature Range	T _{stg}	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N•m

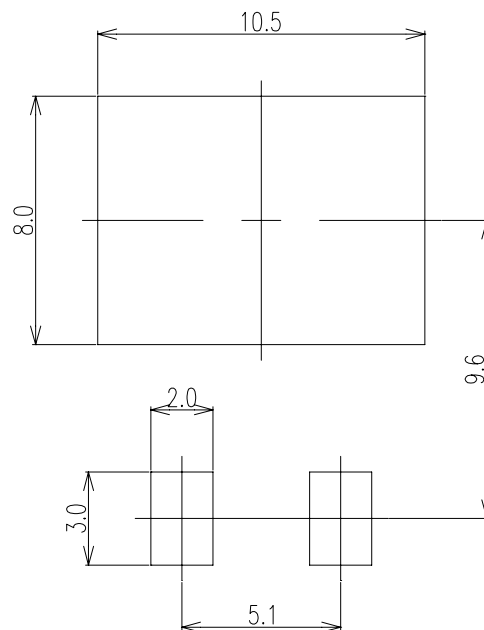
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^{\circ}\text{C}$, $V_{RM} = V_{RRM}$	-	-	30	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}\text{C}$, $I_{FM} = 5\text{A}$	-	1.9	2.3	V
Reverse Recovery Time	t_{rr}	$I_{FM} = 5\text{A}$, $-di/dt = 50\text{ A}/\mu\text{s}$, $T_a = 25^{\circ}\text{C}$	-	25	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5	$^{\circ}\text{C}/\text{W}$

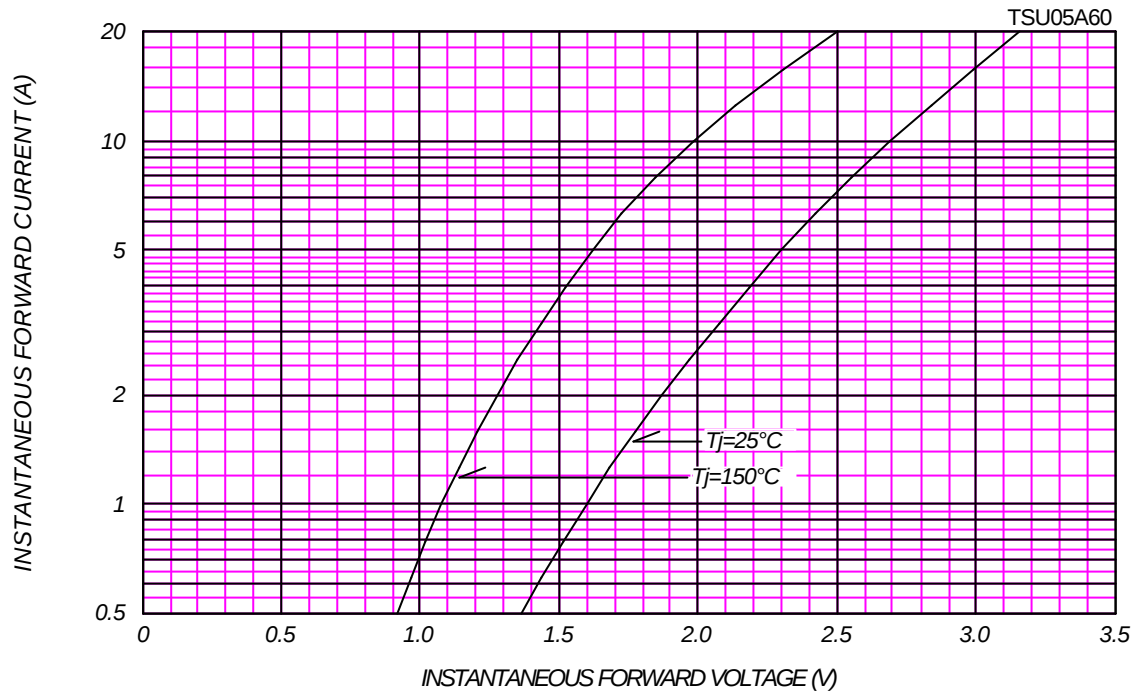
C_T_ OUTLINE DRAWING (Dimensions in mm)



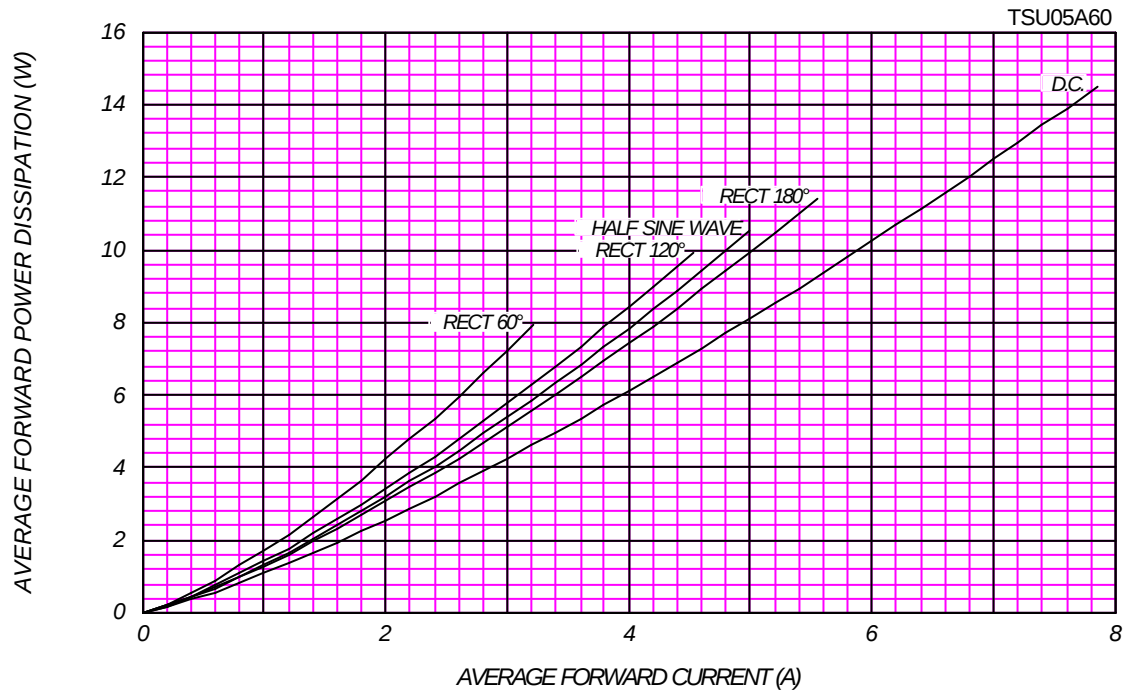
SOLDERING PAD

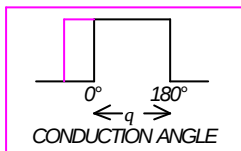


FORWARD CURRENT VS. VOLTAGE

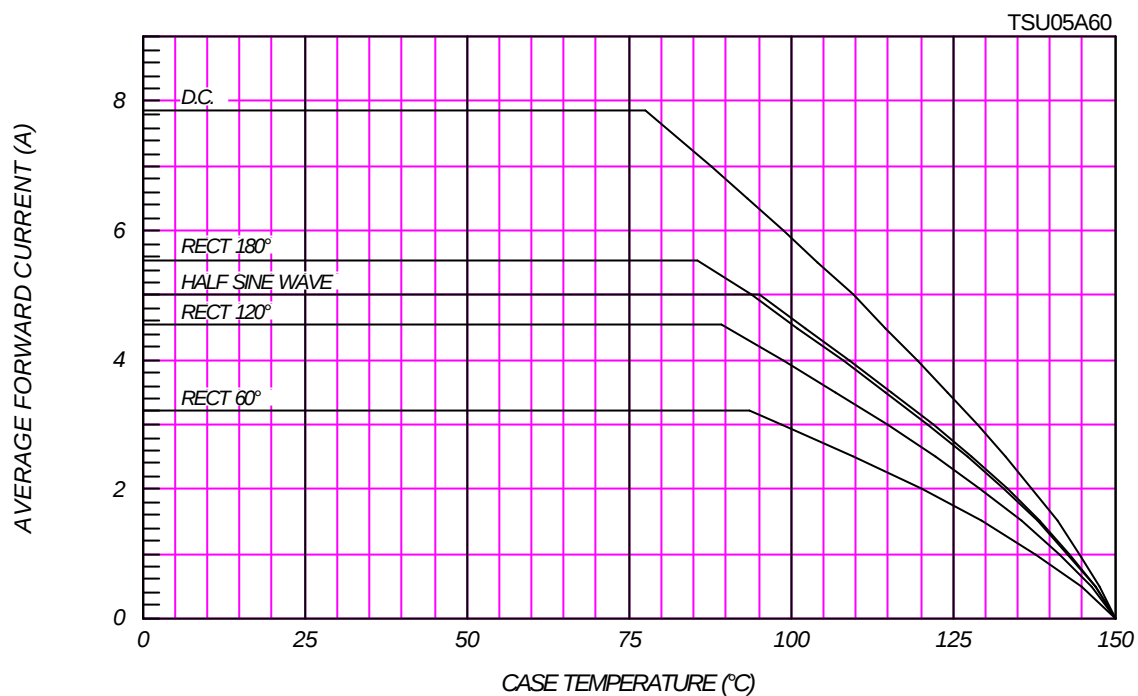


AVERAGE FORWARD POWER DISSIPATION



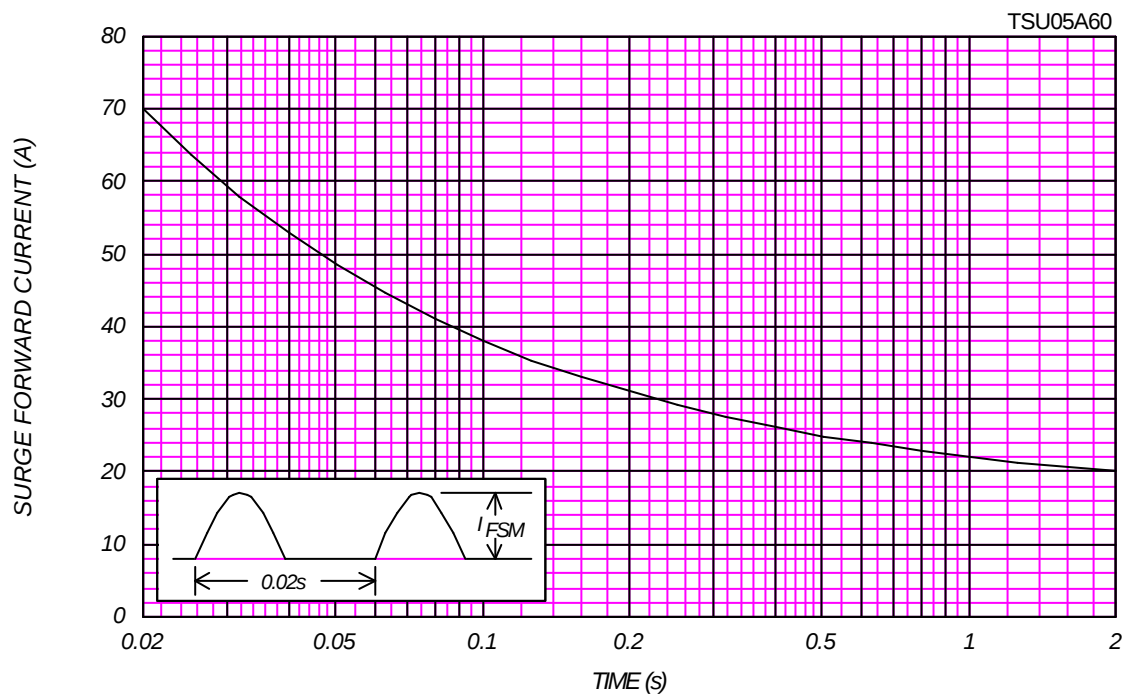


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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



RMS SURGE CURRENT RATINGS

Ta=40°C, Non-Repetitive, No Load

TSU05A60

