

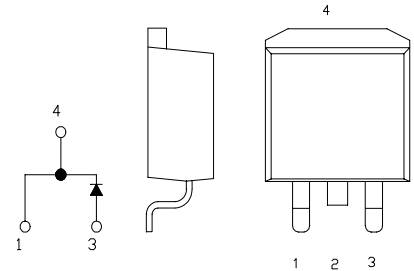
FRD Type : TSU10A60

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

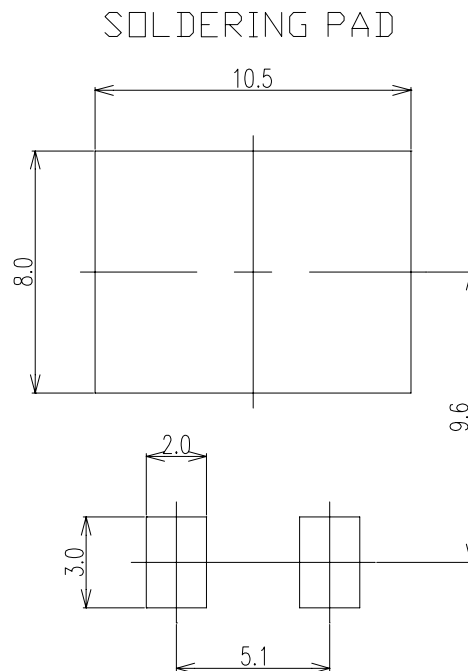
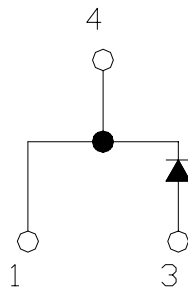
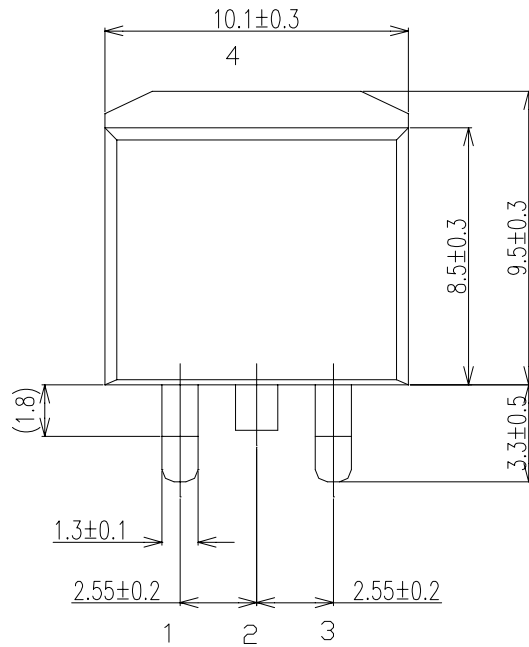
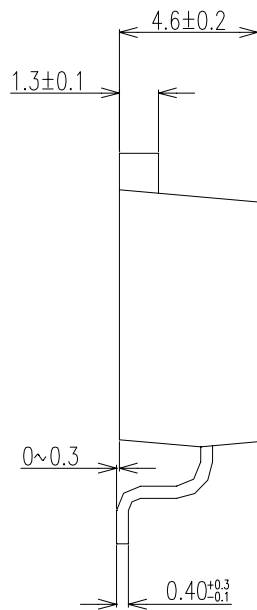
Approx Net Weight:1.45g

Rating	Symbol	TSU10A60			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600			V
Average Rectified Output Current	I _O	10	Tc=60℃	50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	15.7			A
Surge Forward Current	I _{FSM}	110	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

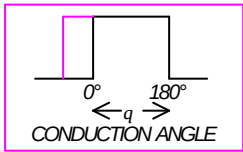
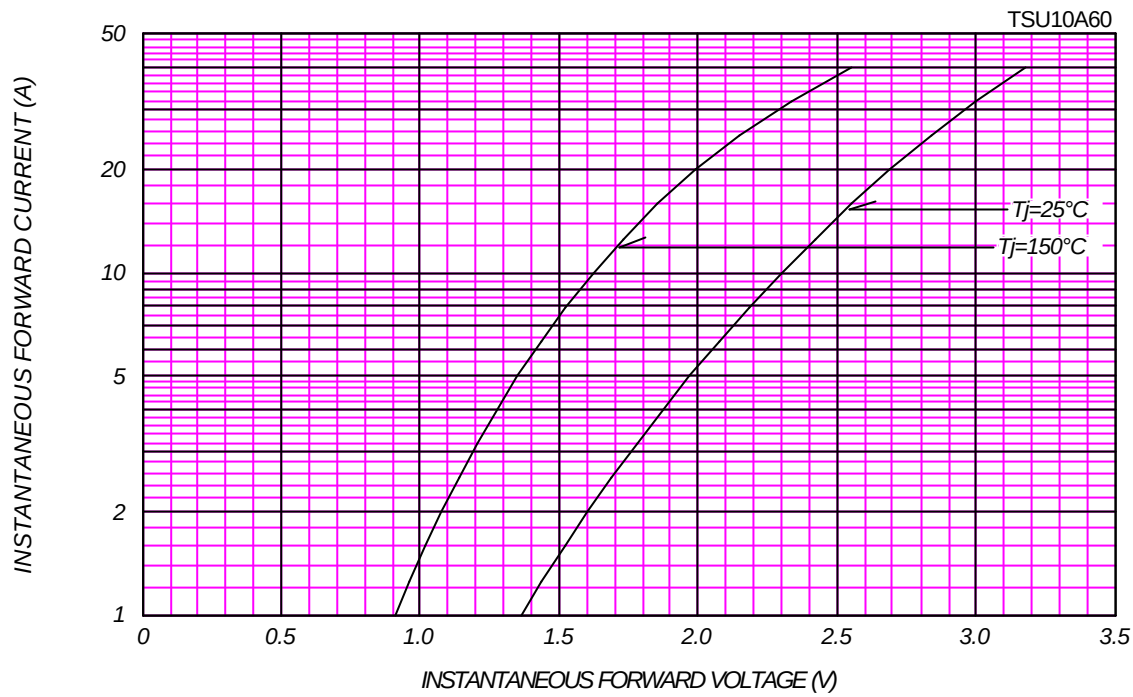
Electrical • Thermal Characteristics

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}	$T_j= 25^{\circ}\text{C}, I_{FM}= 10\text{A}$	-	1.9	2.3	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 10\text{A},$ $-di/dt= 50 \text{ A}/\mu\text{s}, T_a= 25^{\circ}\text{C}$	-	30	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	4	$^{\circ}\text{C}/\text{W}$

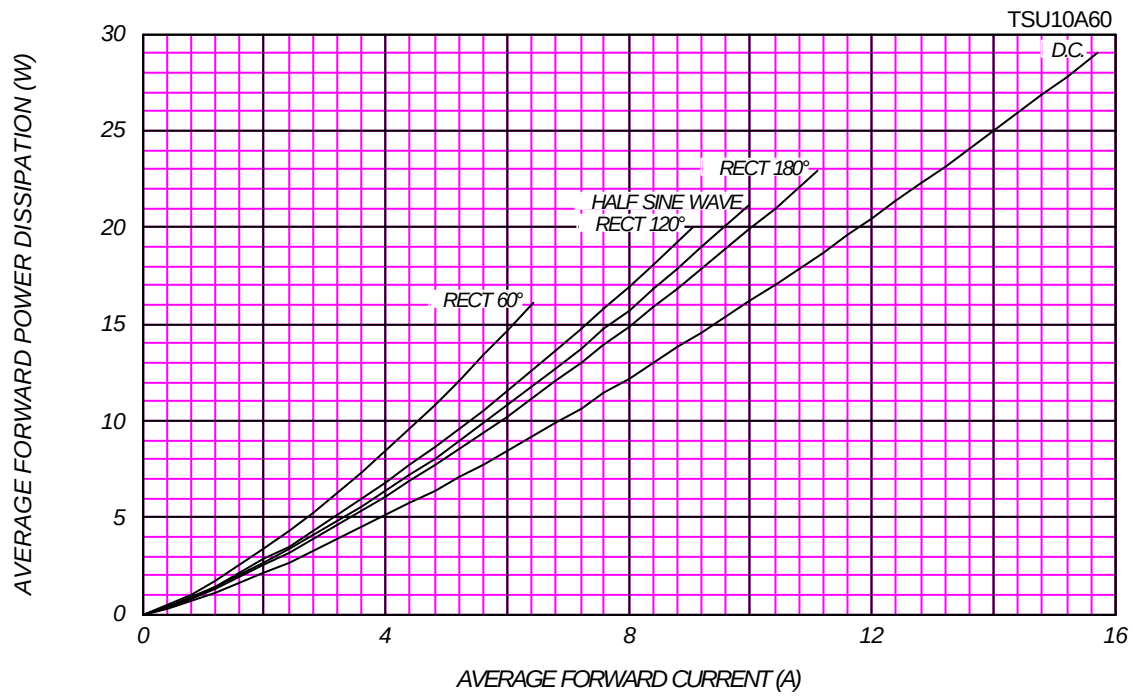
TSU_ OUTLINE DRAWING (Dimensions in mm)

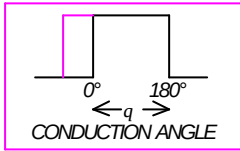


FORWARD CURRENT VS. VOLTAGE

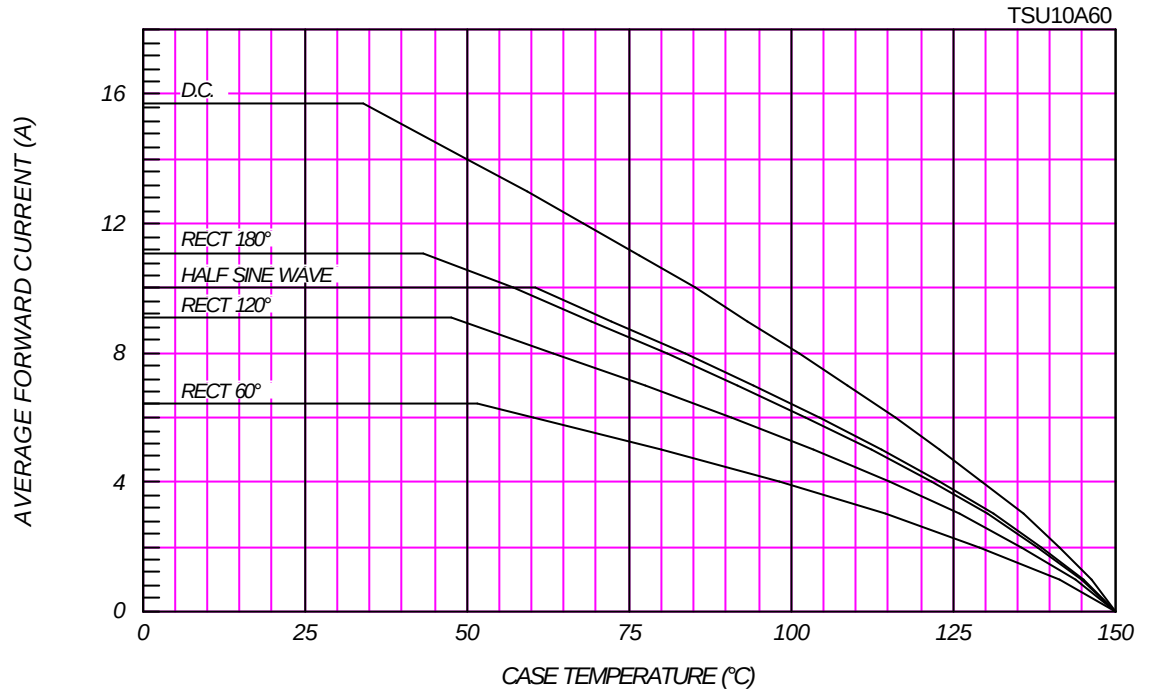


AVERAGE FORWARD POWER DISSIPATION



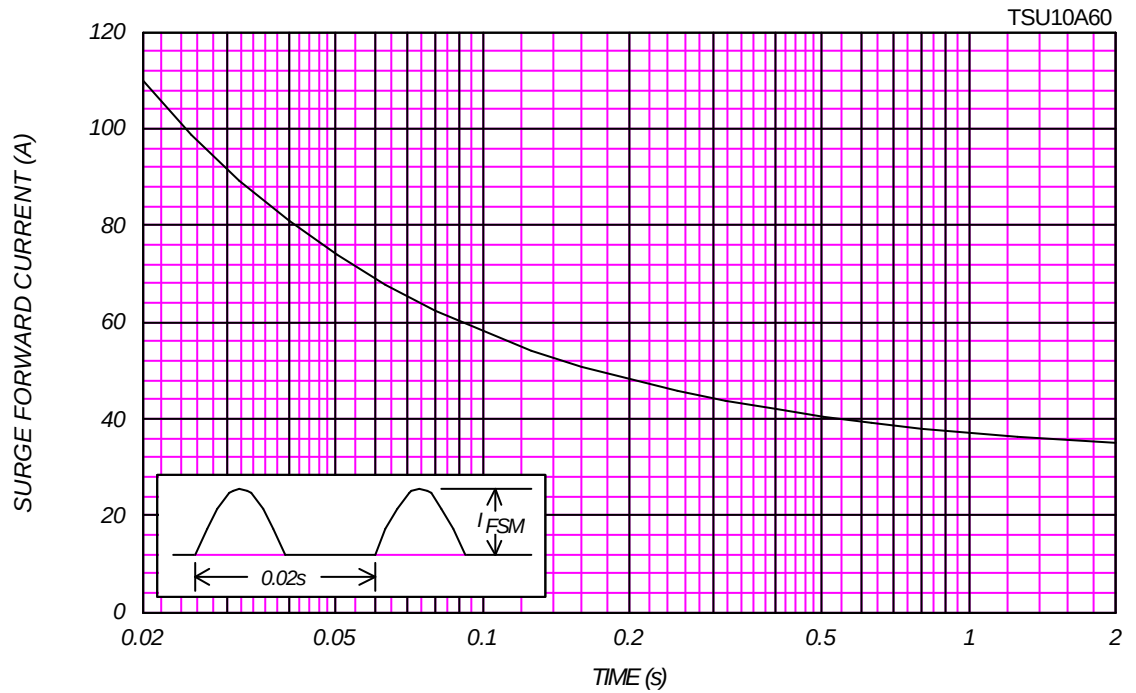


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

$f=50\text{Hz}$, Sine Wave, Non-Repetitive, No Load



RMS SURGE CURRENT RATINGS

Ta=40°C, Non-Repetitive, No Load

TSU10A60

