

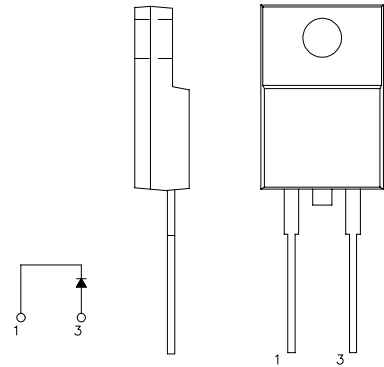
FRD Type : FSU20B60

OUTLINE DRAWING

For Power Factor Improvement High Frequency Rectification

FEATURES

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



Maximum Ratings

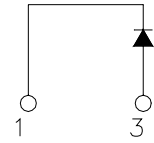
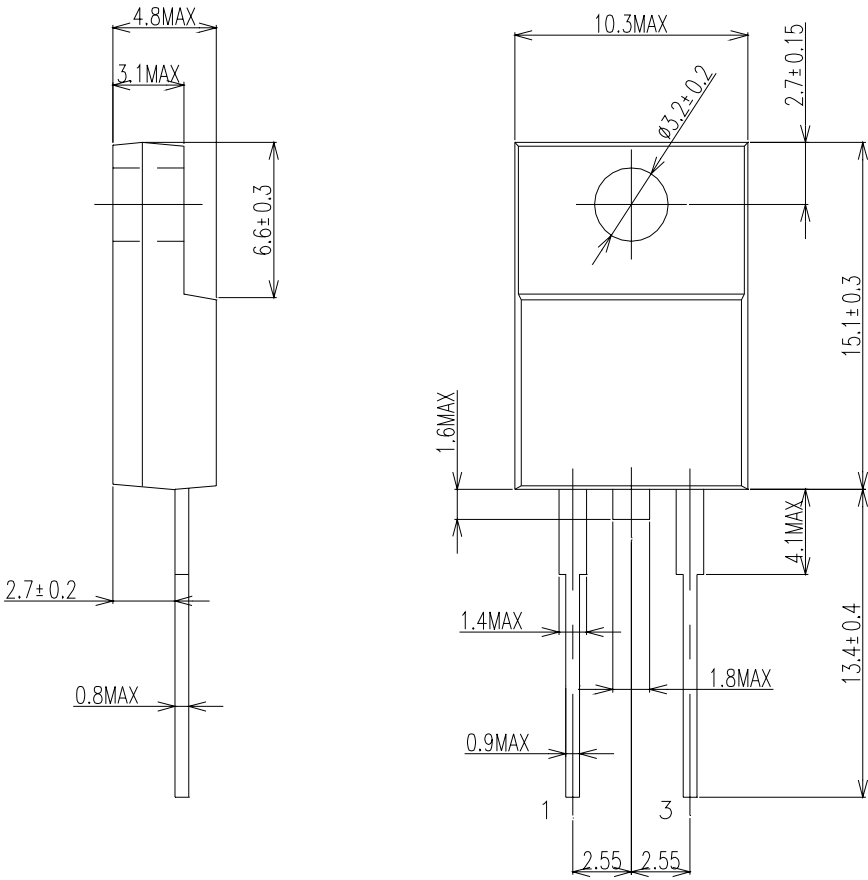
Approx Net Weight:1.7g

Rating	Symbol	FSU20B60			Unit		
Repetitive Peak Reverse Voltage	V_{RRM}	600			V		
Average Rectified Output Current	I_O	15	$T_c=51^{\circ}C$	50 Hz Half Sine Wave Resistive Load	A		
RMS Forward Current	$I_{F(RMS)}$	23.5			A		
Surge Forward Current	I_{FSM}	160	50 Hz Half Sine Wave,1cycle Non-repetitive		A		
Operating JunctionTemperature Range	T_{jw}	- 40 to + 150			$^{\circ}C$		
Storage Temperature Range	T_{stg}	- 40 to + 150			$^{\circ}C$		
Mounting torque		0.5	Recommended value		N•m		

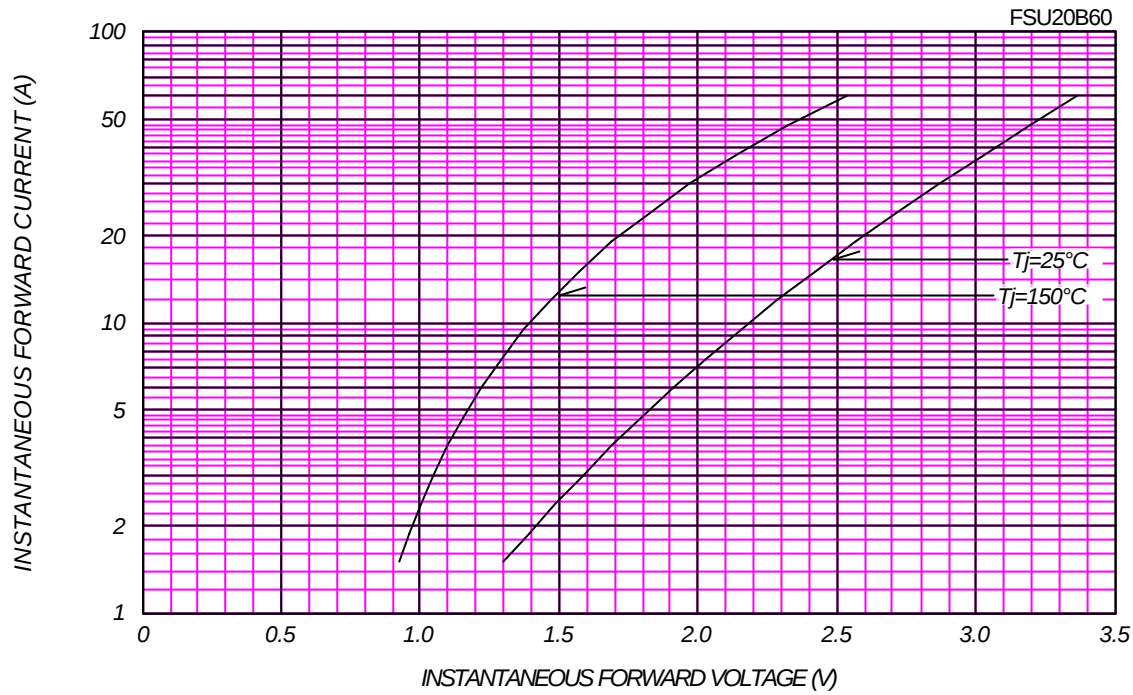
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	30	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}C, I_{FM}= 15A$	-	-	2.42	V
		$T_j= 25^{\circ}C, I_{FM}= 20A$			2.60	
Reverse Recovery Time	t_{rr}	$I_{FM}= 10A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	34	50	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3	$^{\circ}C/W$
	$R_{th(c-f)}$	Case to Fin	-	-	1.5	

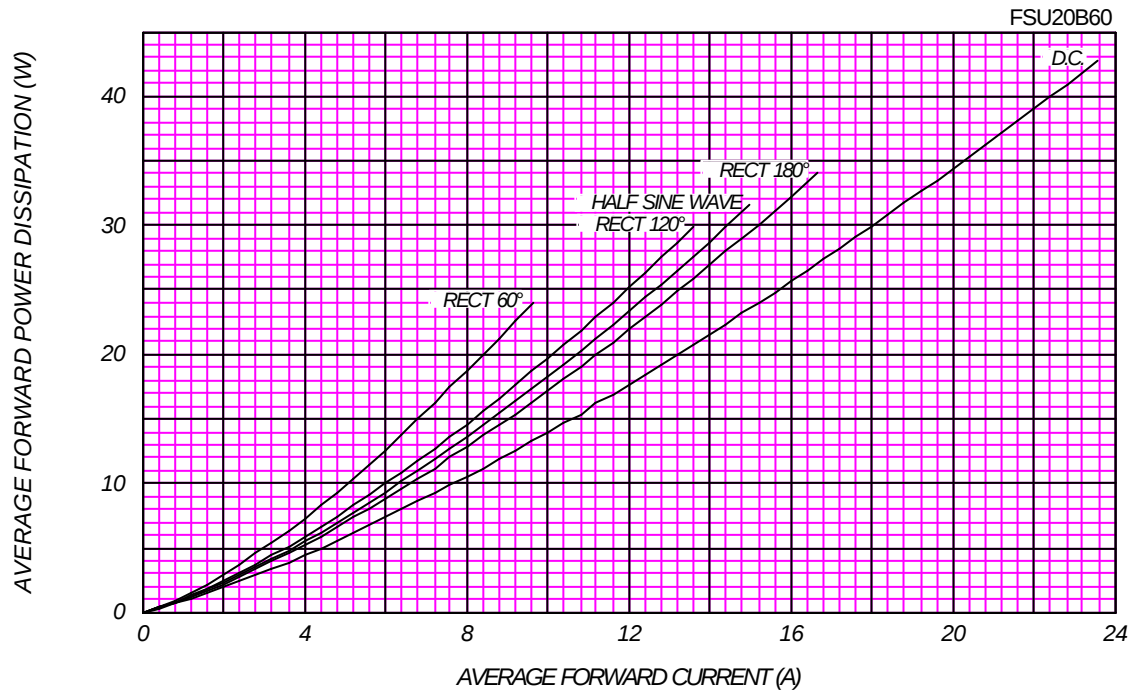
FSU20B60 OUTLINE DRAWING (Dimensions in mm)

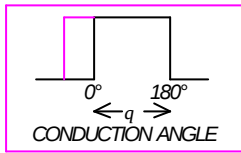


FORWARD CURRENT VS. VOLTAGE

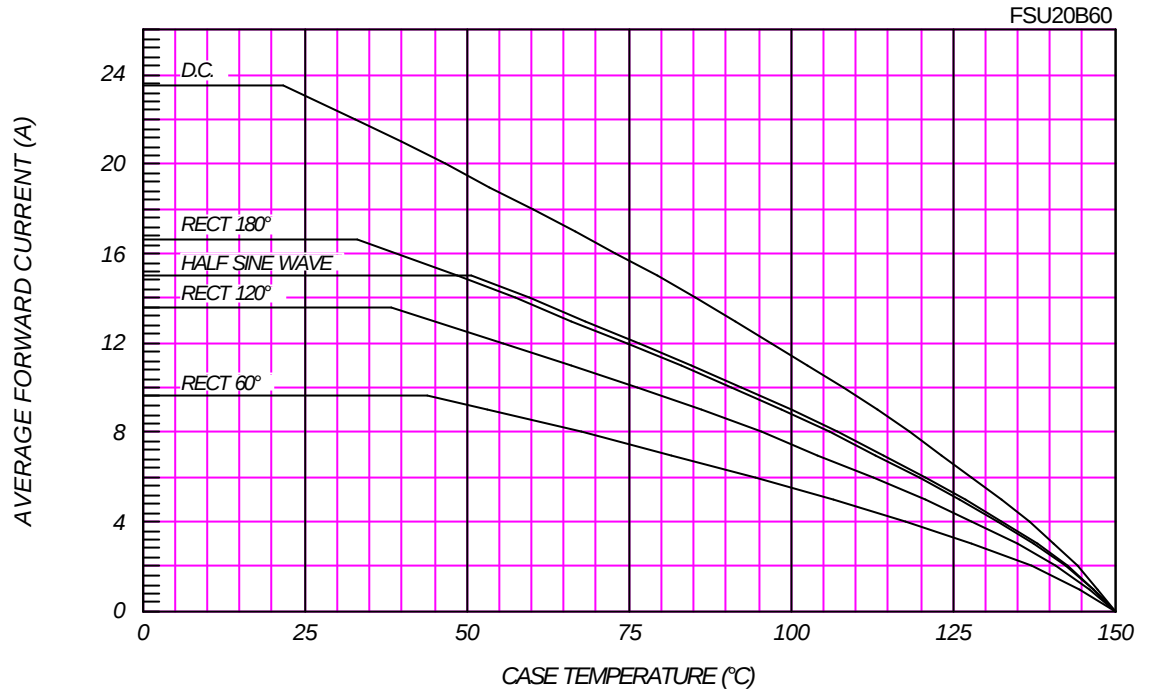


AVERAGE FORWARD POWER DISSIPATION



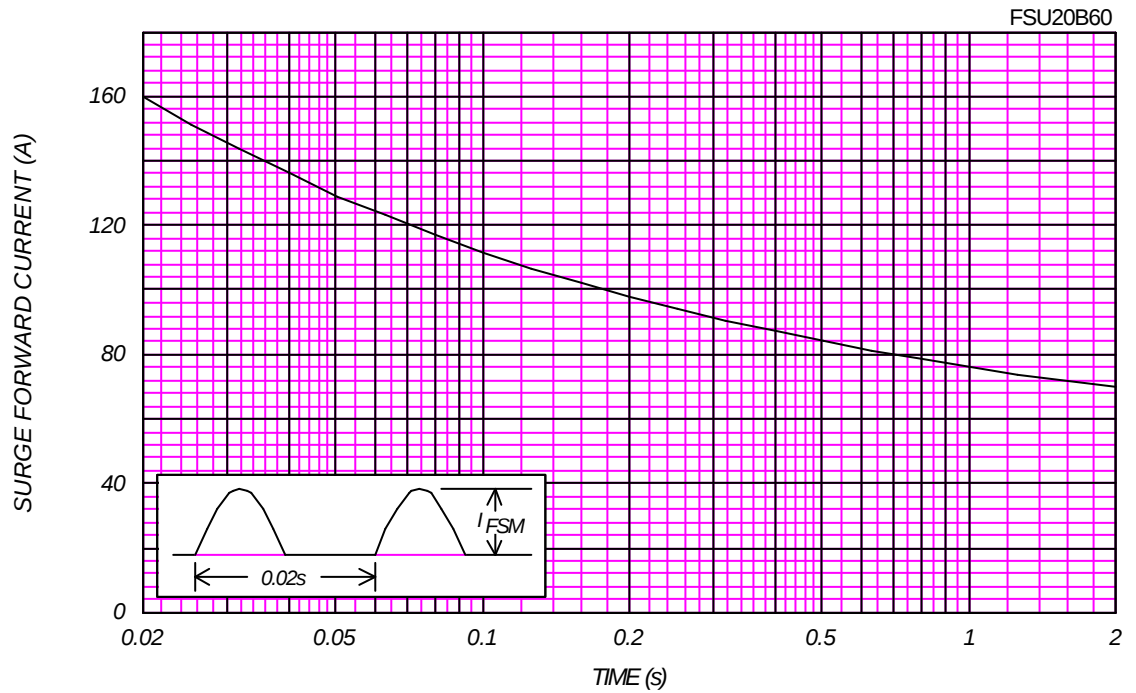


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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



RMS SURGE CURRENT RATINGS

Ta=40°C, Non-Repetitive, No Load

FSU20B60

