

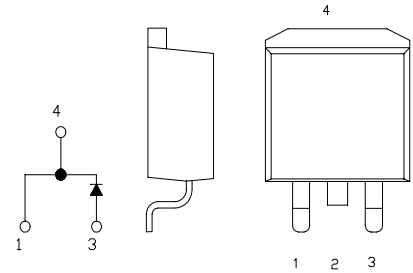
FRD Type : TSF05A40

OUTLINE DRAWING

For Power Factor Improvement High Frequency Rectification

FEATURES

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



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Maximum Ratings

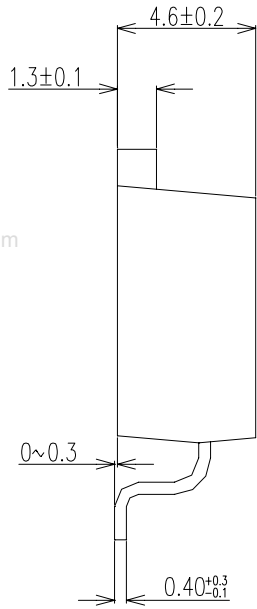
Approx Net Weight:1.45g

Rating	Symbol	TSF05A40		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400		V
Average Rectified Output Current	I_O	5	$T_c=118^{\circ}C$ 50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	7.85		A
Surge Forward Current	I_{FSM}	80	50 Hz Half Sine Wave, 1cycle Non-repetitive	A
Operating Junction Temperature Range	T_{jw}	- 40 to + 150		$^{\circ}C$
Storage Temperature Range	T_{stg}	- 40 to + 150		$^{\circ}C$

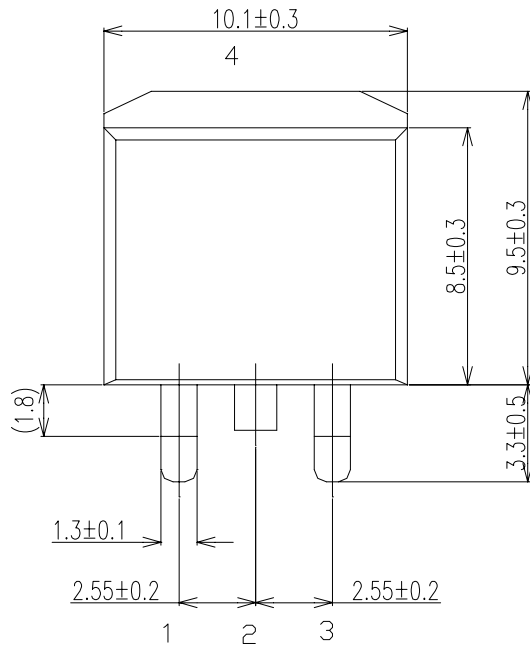
Electrical • Thermal Characteristics

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}	$T_j= 25^{\circ}C, I_{FM}= 5A$	-	-	1.25	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 5A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	-	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5	$^{\circ}C/W$

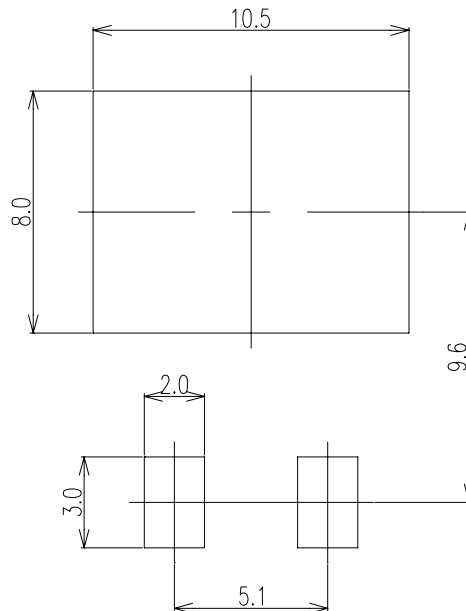
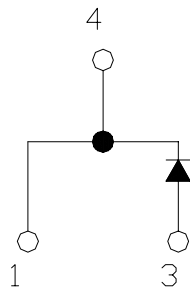
TSF_ OUTLINE DRAWING (Dimensions in mm)



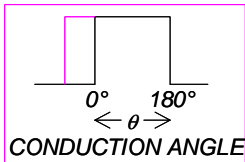
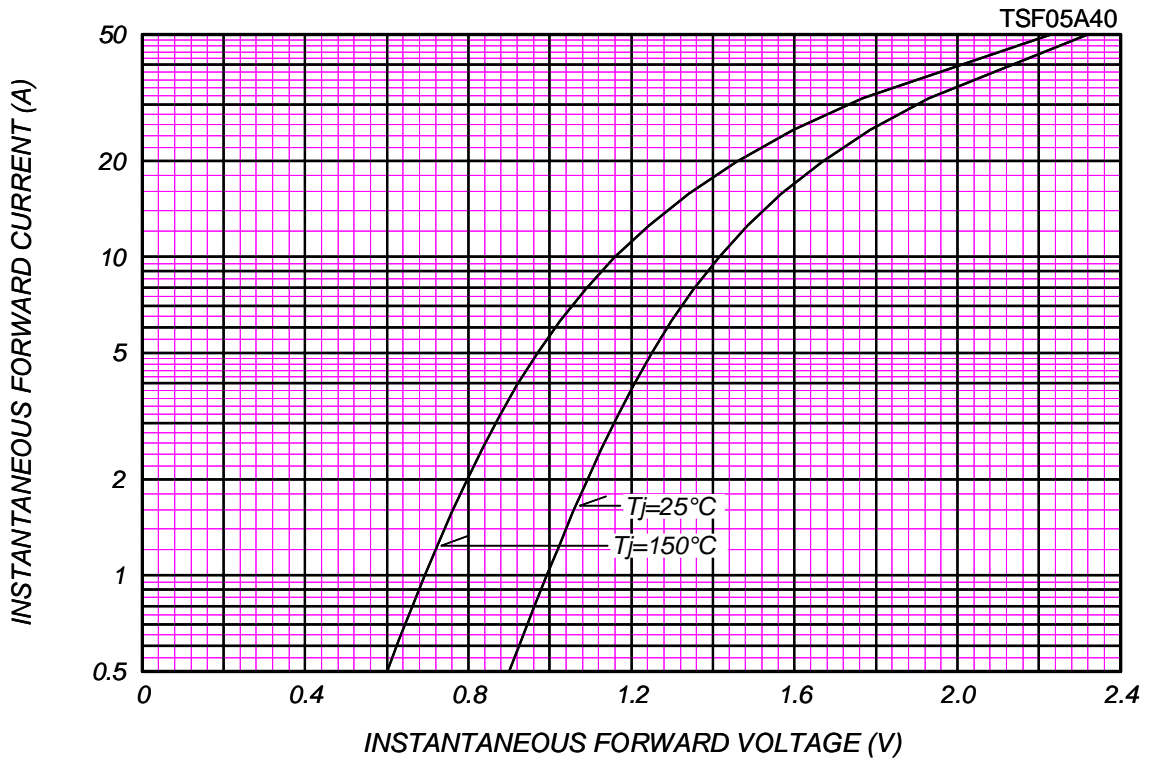
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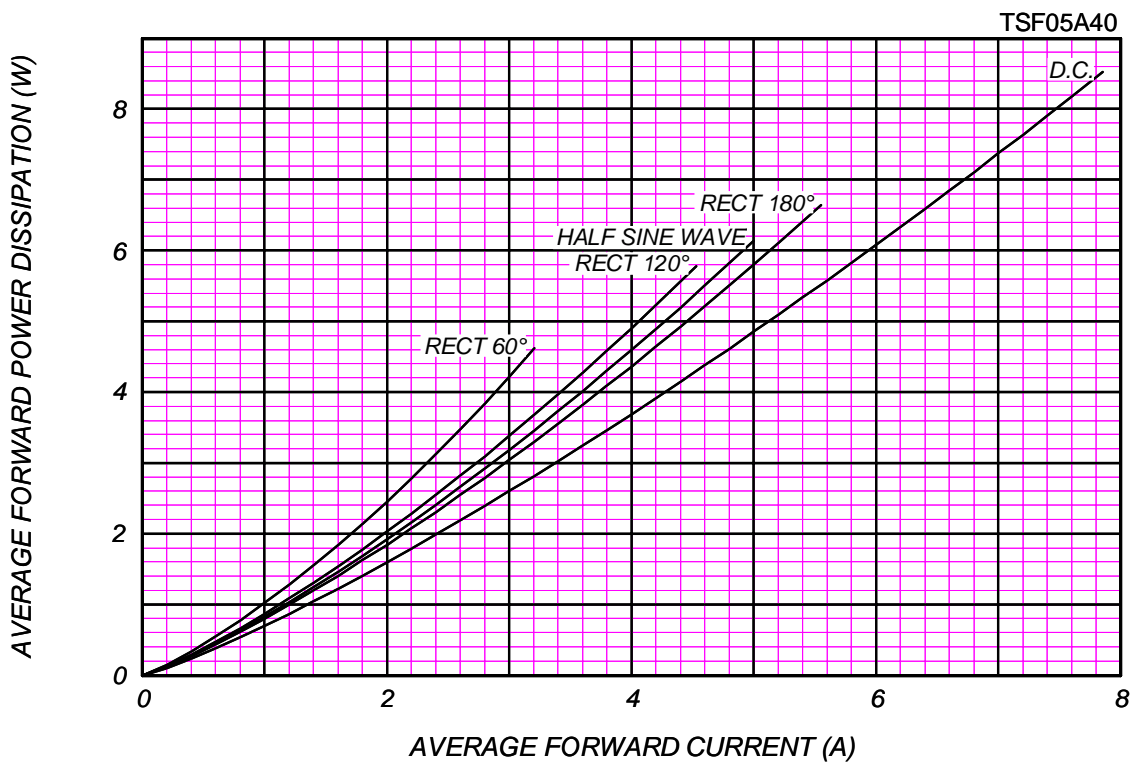
SOLDERING PAD

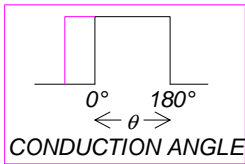


FORWARD CURRENT VS. VOLTAGE

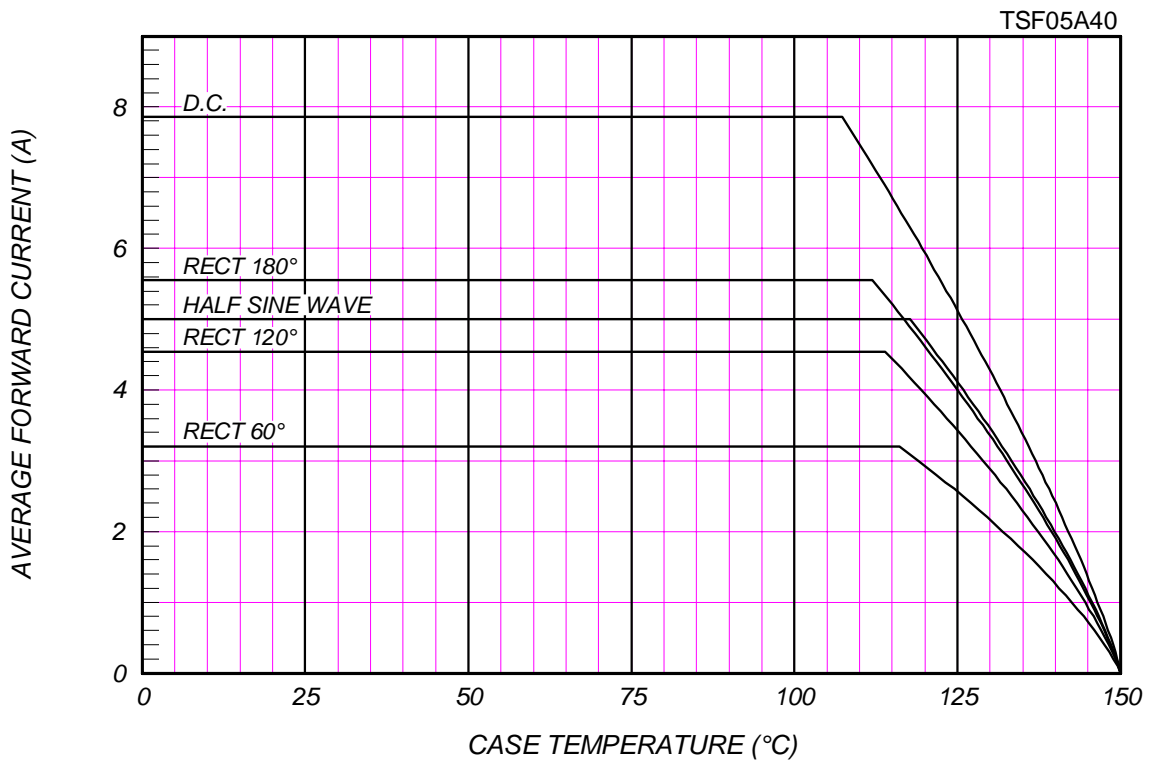


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

