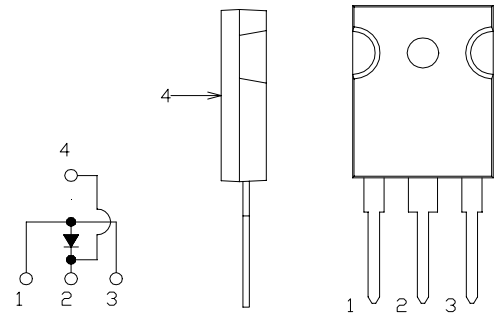


FRD Type : KSF25A120B

OUTLINE DRAWING

FEATURES

- * Similar to TO-247AC(TO-3P)Case
- * Ultra-Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss,High Efficiency
- * High Surge Current Capability
- * High Voltage



Maximum Ratings

Approx Net Weight: 5.55g

Rating	Symbol	KSF25A120B			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	1200			V
Average Rectified Output Current *1	I _O	25	Tc=32℃	50 Hz half Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	39			A
Surge Forward Current	I _{FSM}	400	50Hz 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	F _{tor}	recommended torque = 0.5			N•m

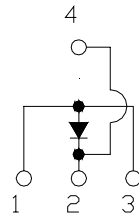
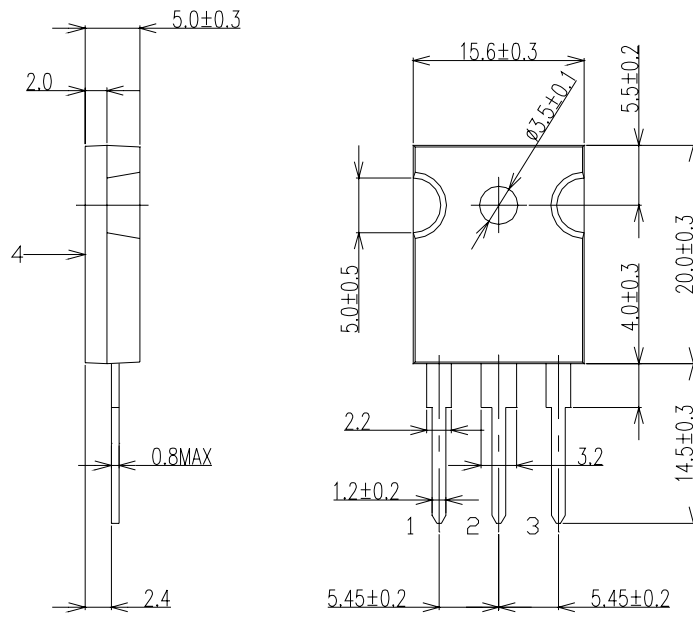
*1:Anode Terminals 1 and 3 Connected

Electrical • Thermal Characteristics

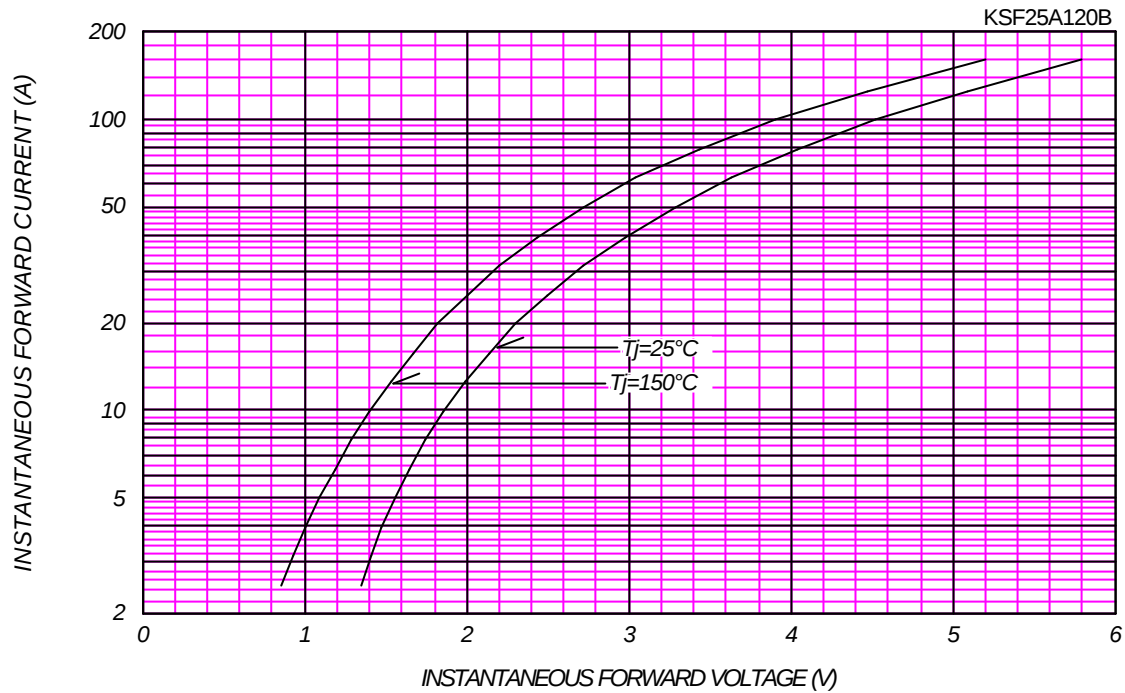
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}, V_{RM}= V_{RRM}$	-	-	5	mA
Peak Forward Voltage *1	V_{FM}	$T_j= 25^{\circ}\text{C}, I_{FM}= 25 \text{ A}$	-	-	2.5	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 25\text{A},$ $-di/dt=200\text{A}/\mu\text{s}, T_a=25^{\circ}\text{C}$			200	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	1.5	$^{\circ}\text{C}/\text{W}$

*1:Anode Terminals 1 and 3 Connected

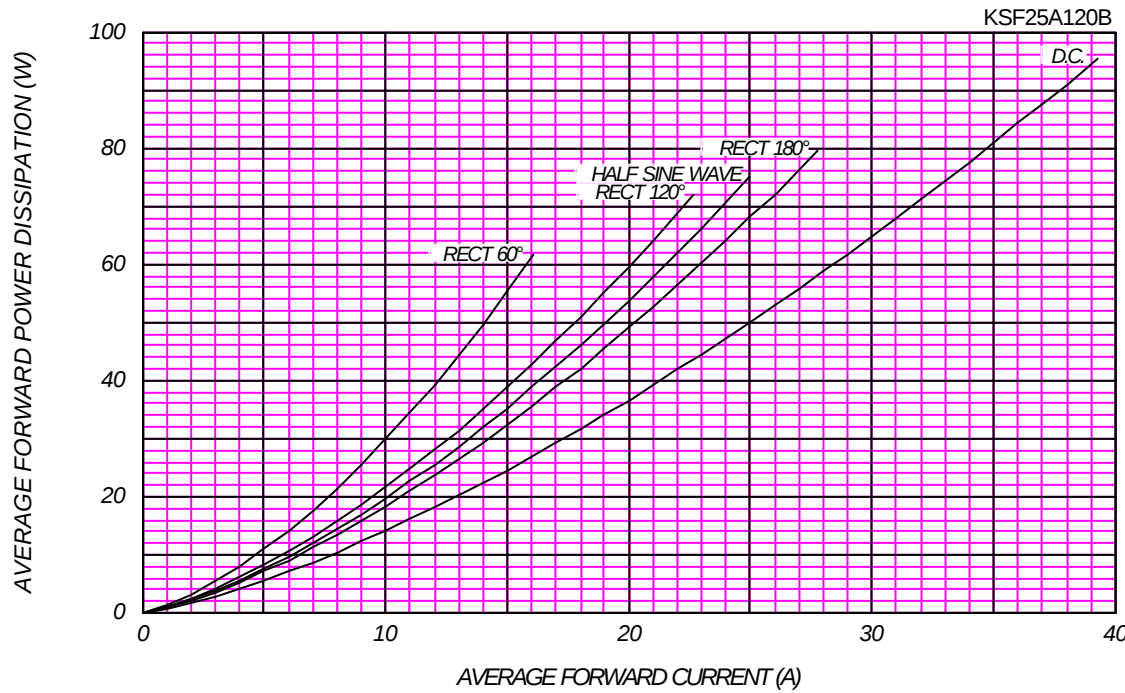
KSF25A120B OUTLINE DRAWING (Dimensions in mm)

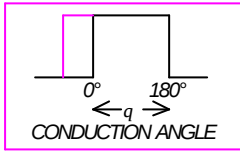


FORWARD CURRENT VS. VOLTAGE

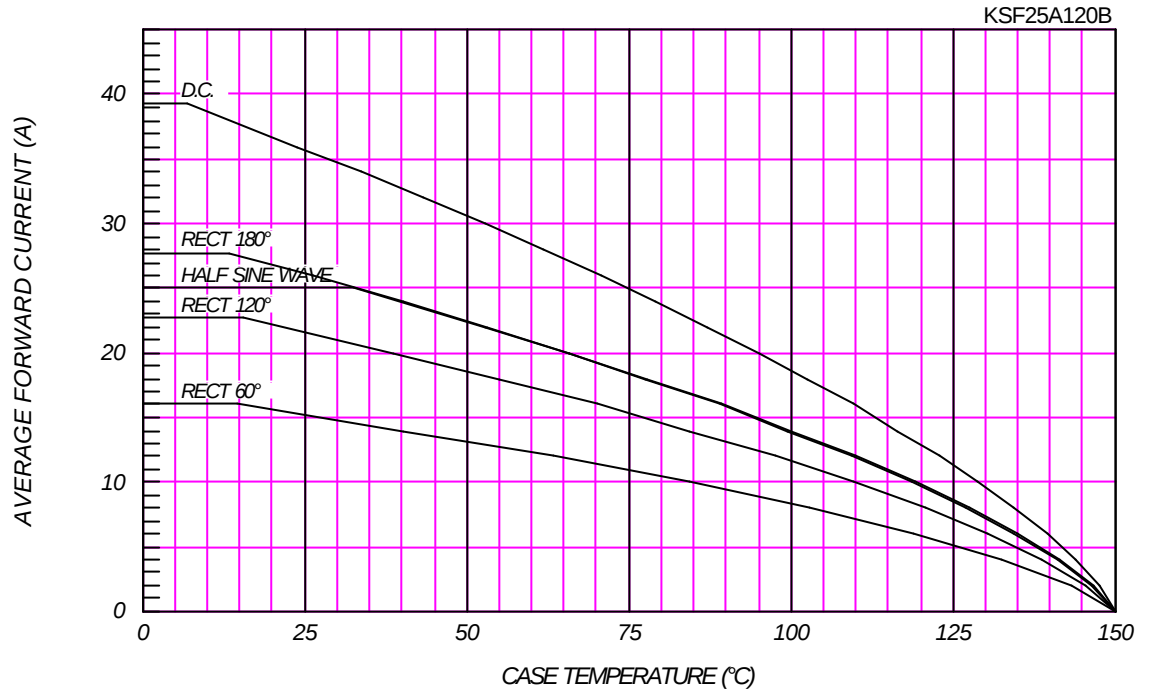


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

