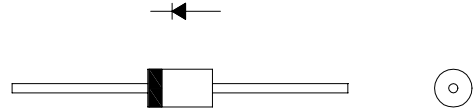


FRD Type: 20NFA40

FEATURES

- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 400 Volts and 600 Volts Types Available

OUTLINE DRAWING



Maximum Ratings

Apporox Net Weight:1.19g

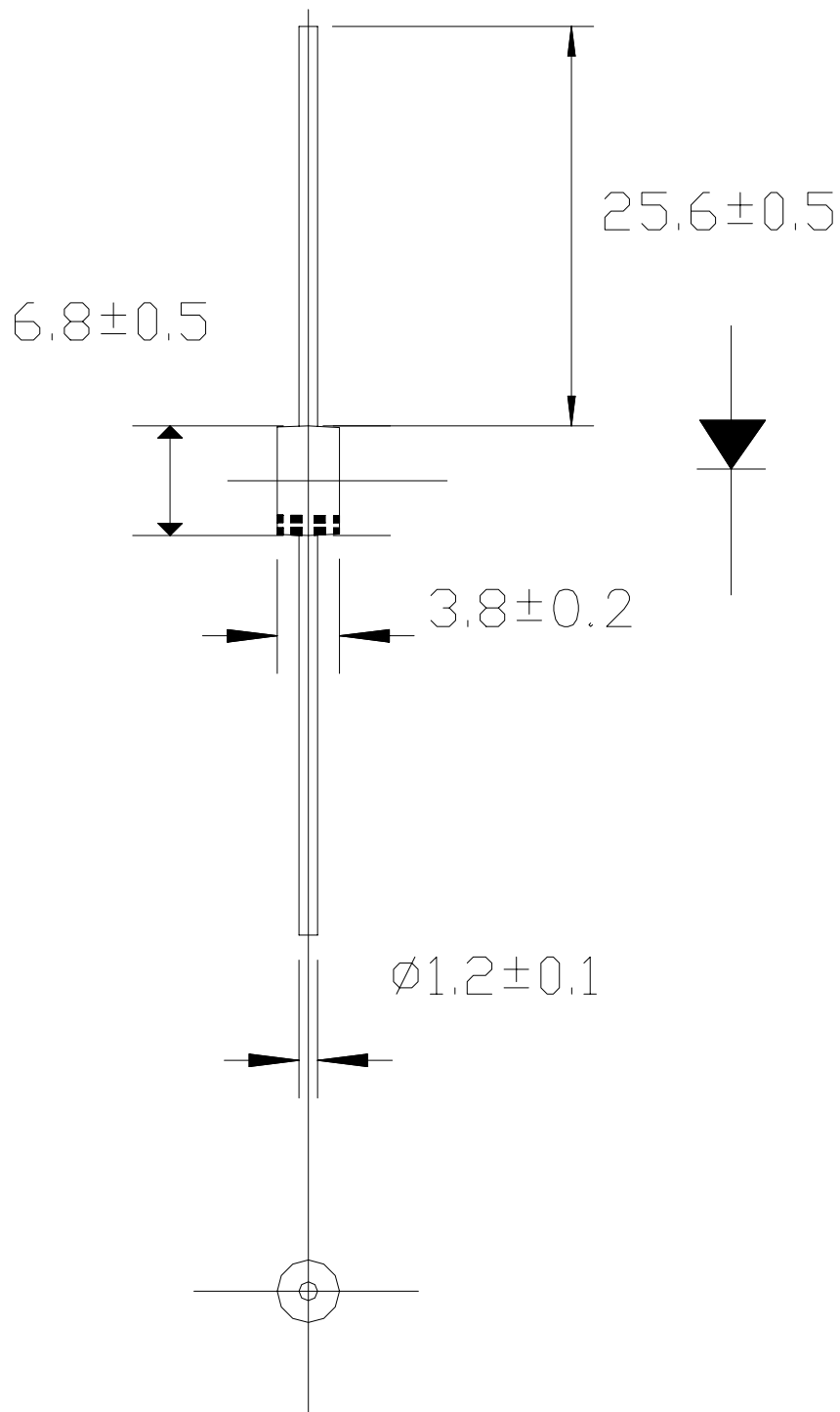
Rating	Symbol	20NFA40			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	400			V
Average Rectified Output Current	I _O	2.0	Tl=114℃ Tl: Lead Temperature	50HzHalf Sine Wave Resistive Load	A
		1.15	Ta=25℃ *1		
RMS Forward Current	I _{F(RMS)}	3.14			A
Surge Forward Current	I _{FSM}	50	50Hz Half Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			℃
Storage Temperature Range	T _{stg}	- 40 to + 150			℃

Electrical/Thermal • Characteristics

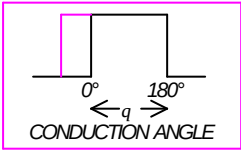
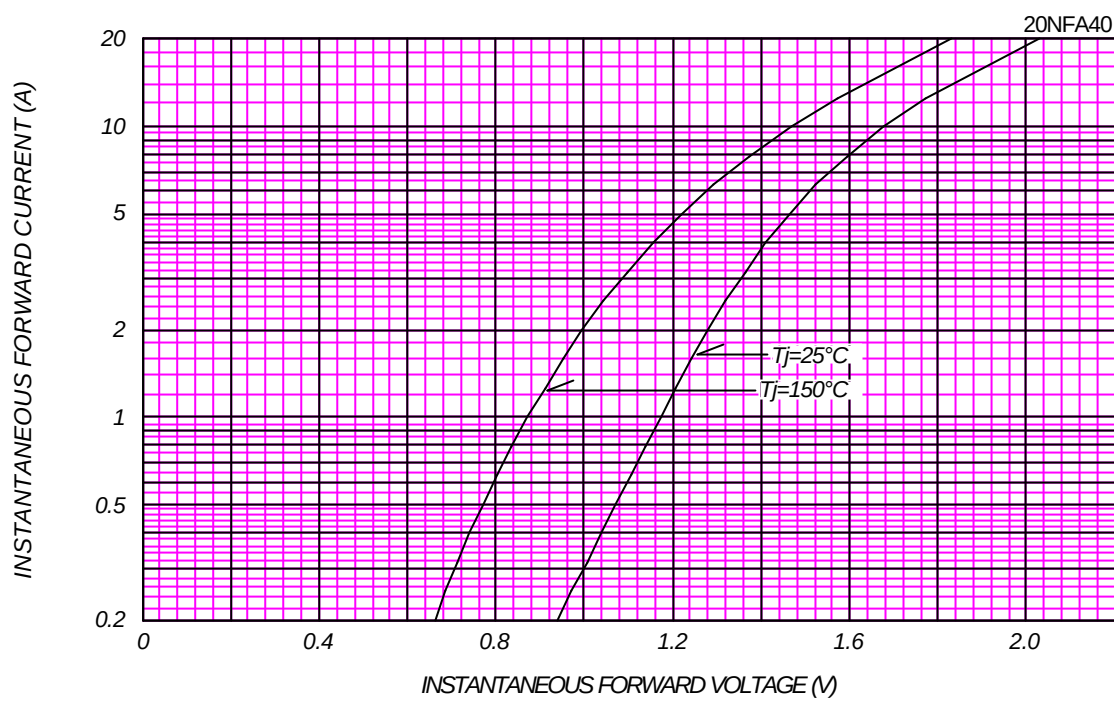
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 2\text{A}$	-	-	1.28	V
Reverse Recovery Time	t_{rr}	$T_a= 25^{\circ}\text{C}$, $I_{FM}=2\text{A}$ $-di/dt=50\text{A}/\mu\text{s}$	-	-	35	ns
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	-	-	15	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-a)}$	Junction to Ambient			90	

*1: Without Fin or P.C. Board

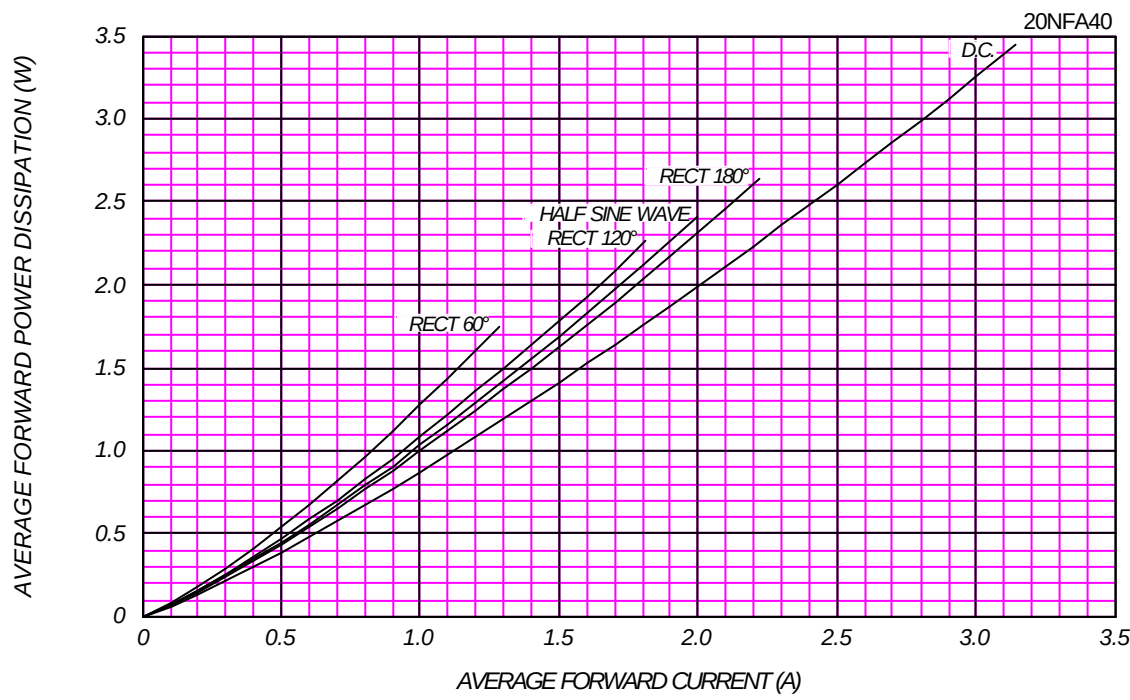
20NFA_ OUTLINE DRAWING (Dimensions in mm)

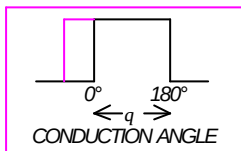


FORWARD CURRENT VS. VOLTAGE



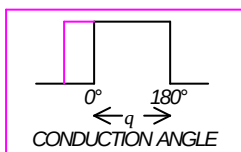
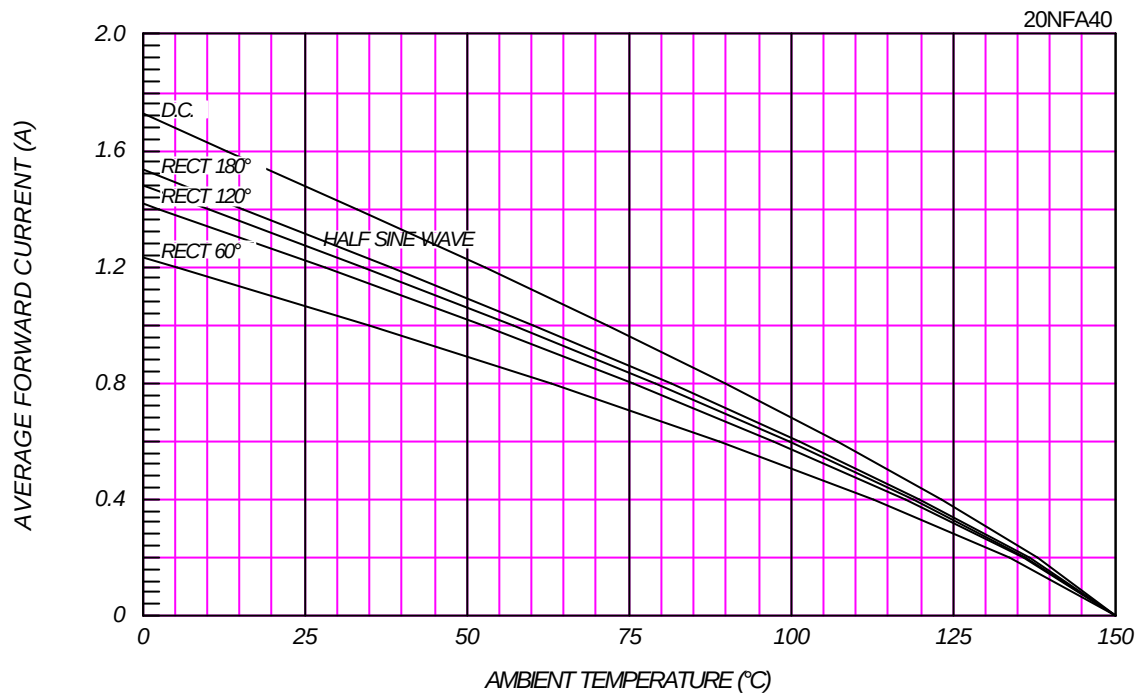
AVERAGE FORWARD POWER DISSIPATION



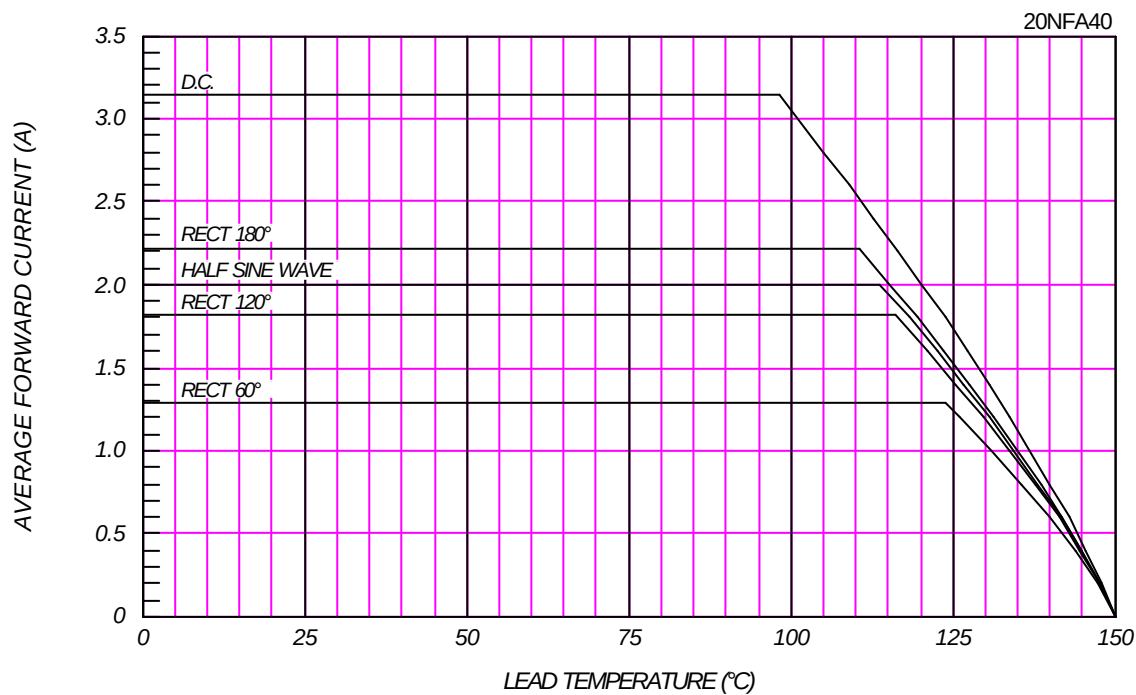


AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C.Board



AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



SURGE CURRENT RATINGS

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

20NFA40

