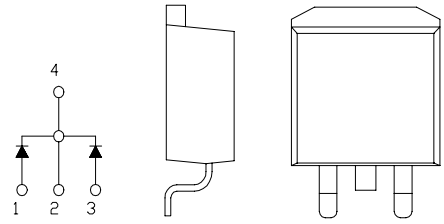


# FRD Type : C16T20F

## OUTLINE DRAWING

### FEATURES

- \* **SQUARE-PAK** TO263AB Case (SMD)
- Packaged in 24mm Tape and Reel
- \* Dual Diodes – Cathode Common
- \* Ultra – Fast Recovery
- \* Low Forward Voltage Drop
- \* High Surge Capability
- \* 200 Volts thru 600 Volts Types Available



### Maximum Ratings

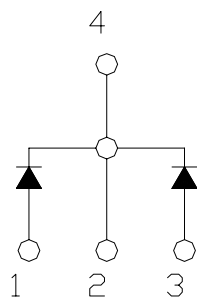
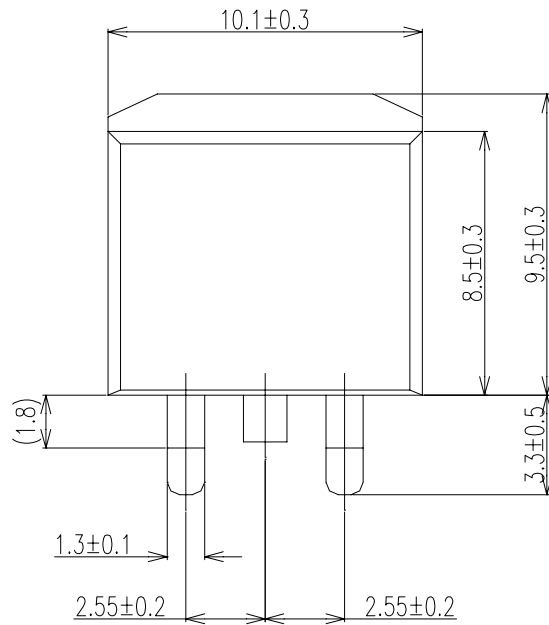
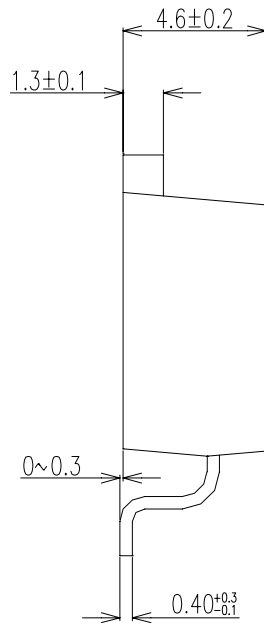
Approx Net Weight:1.4g

Rating	Symbol	C16T20F			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200			V
Non-repetitive Peak Reverse Voltage	V <sub>RSM</sub>	220			V
Average Rectified Output Current	I <sub>O</sub>	16	Tc=113°C	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	18			A
Surge Forward Current	I <sub>FSM</sub>	120	50 Hz Full Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T <sub>jw</sub>	- 40 to + 150			°C
Storage Temperature Range	T <sub>stg</sub>	- 40 to + 150			°C

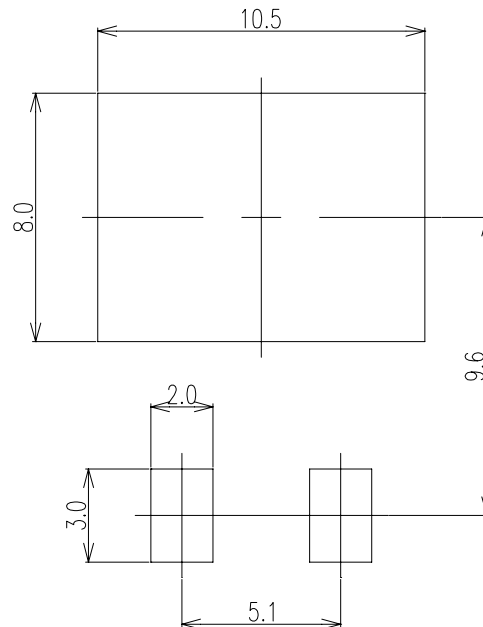
### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	25	$\mu\text{A}$
Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}\text{C}, I_{FM}=8\text{A}$ per Arm	-	-	0.98	V
Reverse Recovery Time	$t_{rr}$	$I_{FM}=8\text{A}$ , $-di/dt=50\text{A}/\mu\text{s}$ , $T_a=25^{\circ}\text{C}$	-	-	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2	$^{\circ}\text{C}/\text{W}$

C\_T\_ OUTLINE DRAWING (Dimensions in mm)



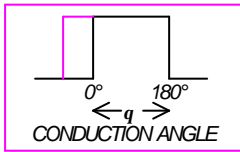
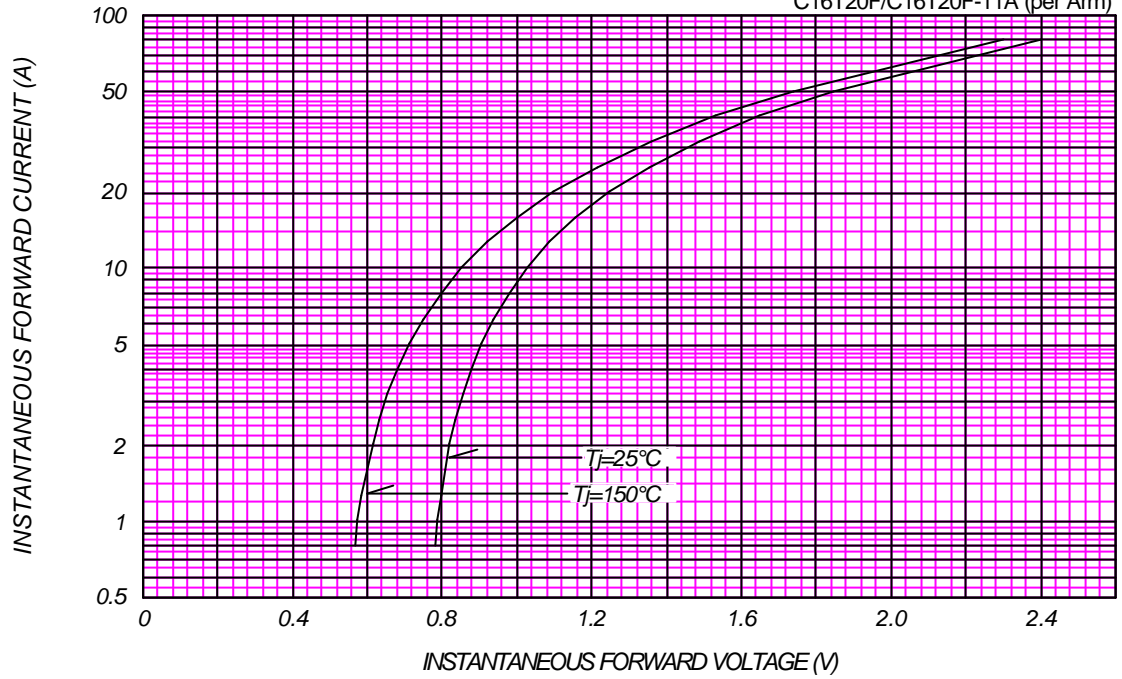
SOLDERING PAD



# FORWARD CURRENT VS. VOLTAGE

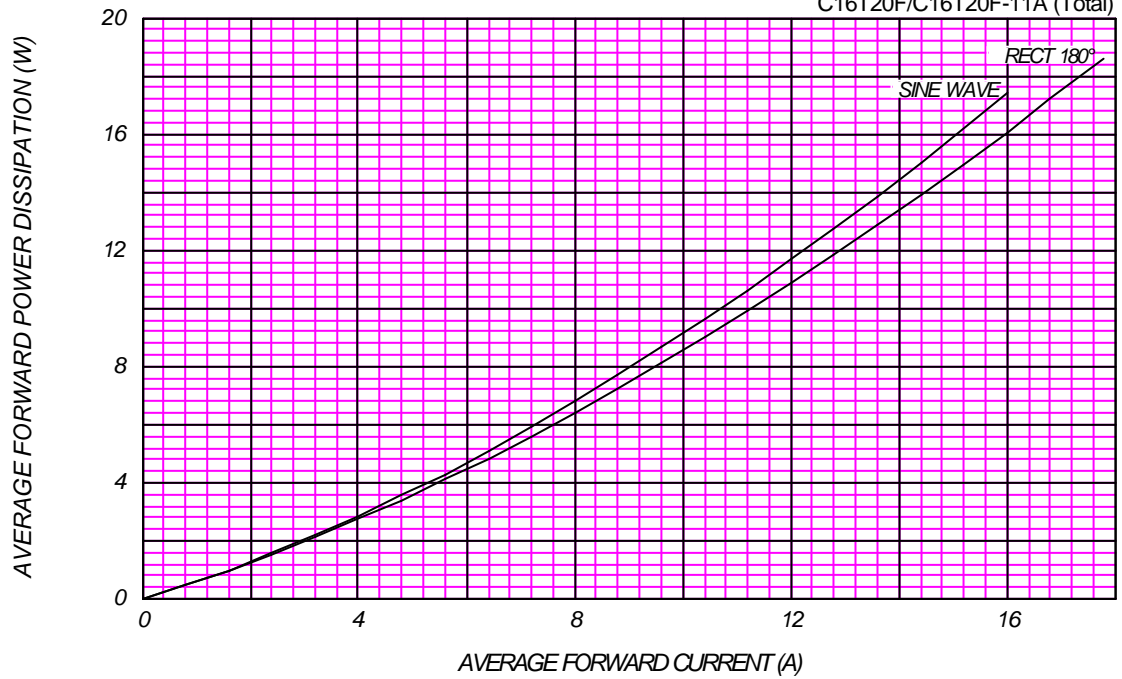
10ms Sine Wave Single Pulse

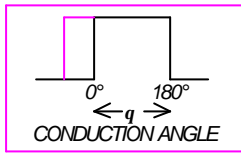
C16T20F/C16T20F-11A (per Arm)



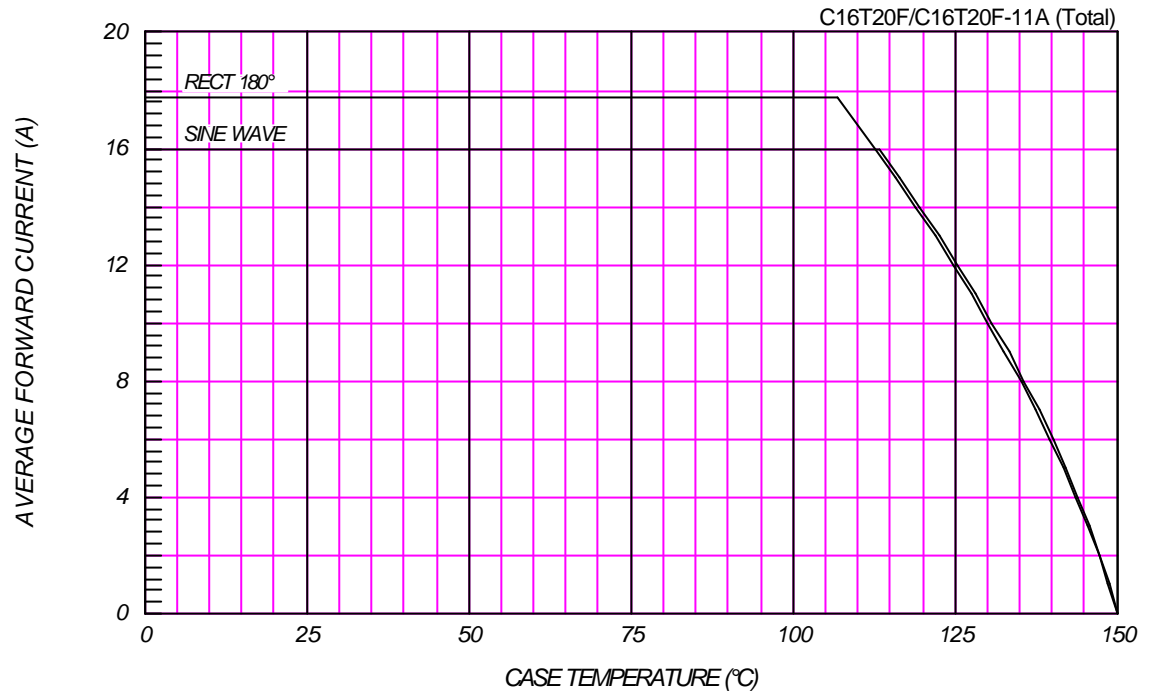
## AVERAGE FORWARD POWER DISSIPATION

C16T20F/C16T20F-11A (Total)





### AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



### SURGE CURRENT RATINGS

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

