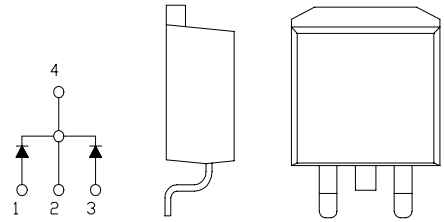


# FRD Type : C10T40F

## 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

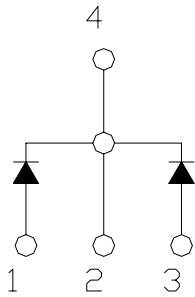
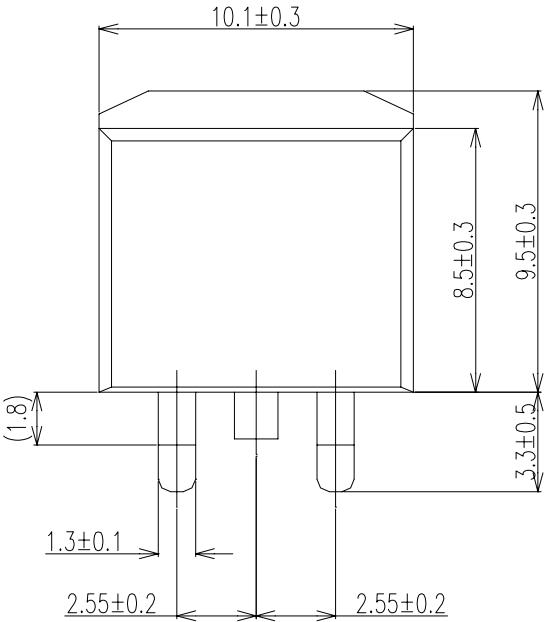
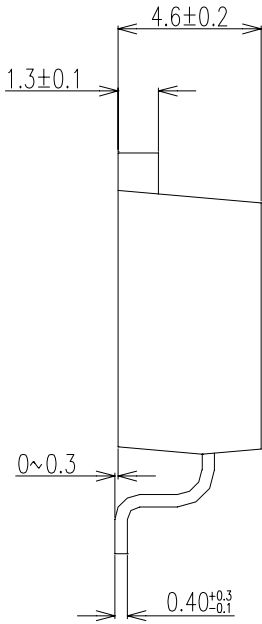
Approx Net Weight:1.4g

Rating	Symbol	C10T40F			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	400			V
Non-repetitive Peak Reverse Voltage	V <sub>RSM</sub>	440			V
Average Rectified Output Current	I <sub>O</sub>	10	Tc=112°C	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	11.1			A
Surge Forward Current	I <sub>FSM</sub>	80	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

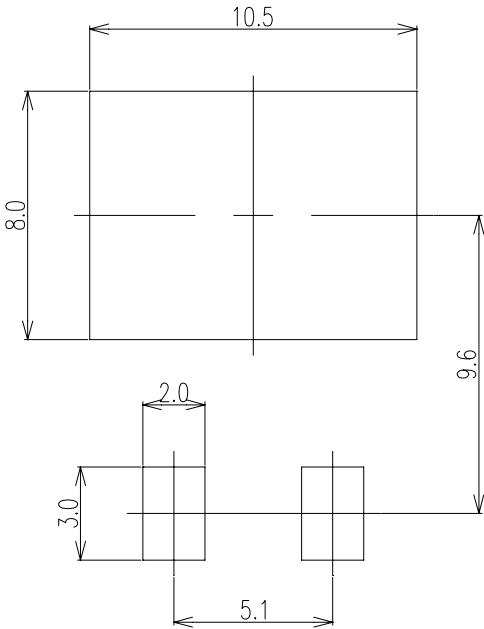
### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	30	$\mu\text{A}$
Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}\text{C}, I_{FM}=5\text{A}$ per Arm	-	-	1.25	V
Reverse Recovery Time	$t_{rr}$	$I_{FM}=5\text{A}$ , $-di/dt=50\text{A}/\mu\text{s}$ , $T_a=25^{\circ}\text{C}$	-	-	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3	$^{\circ}\text{C}/\text{W}$

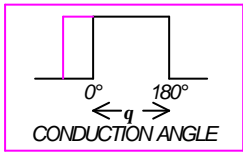
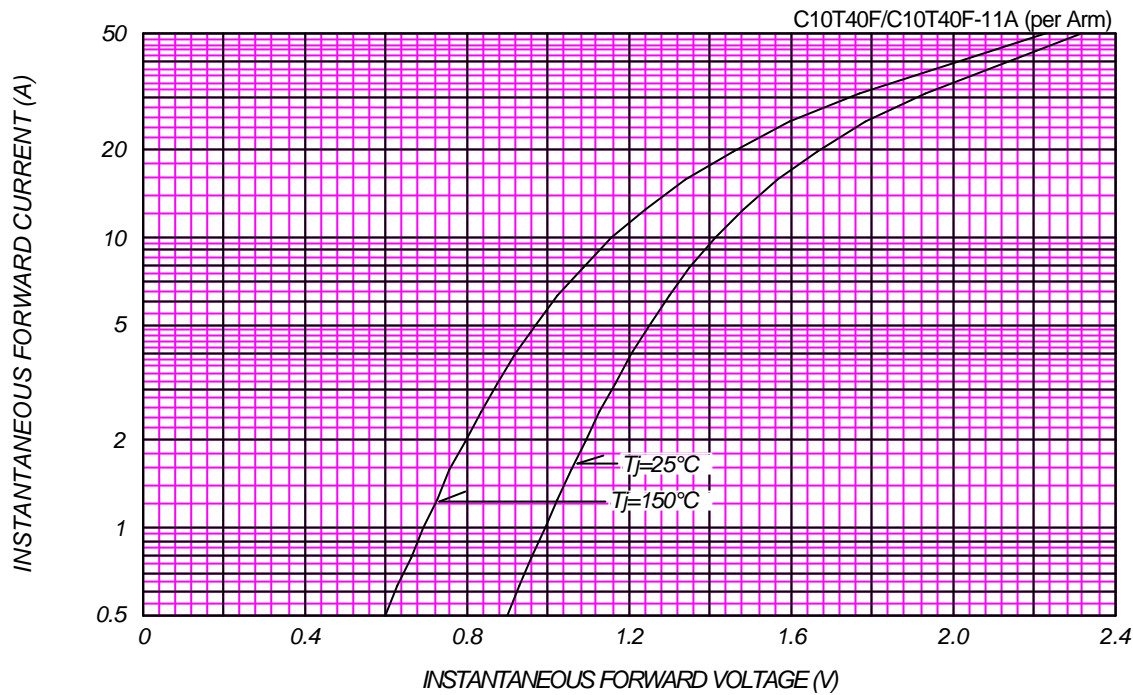
C\_T\_ OUTLINE DRAWING (Dimensions in mm)



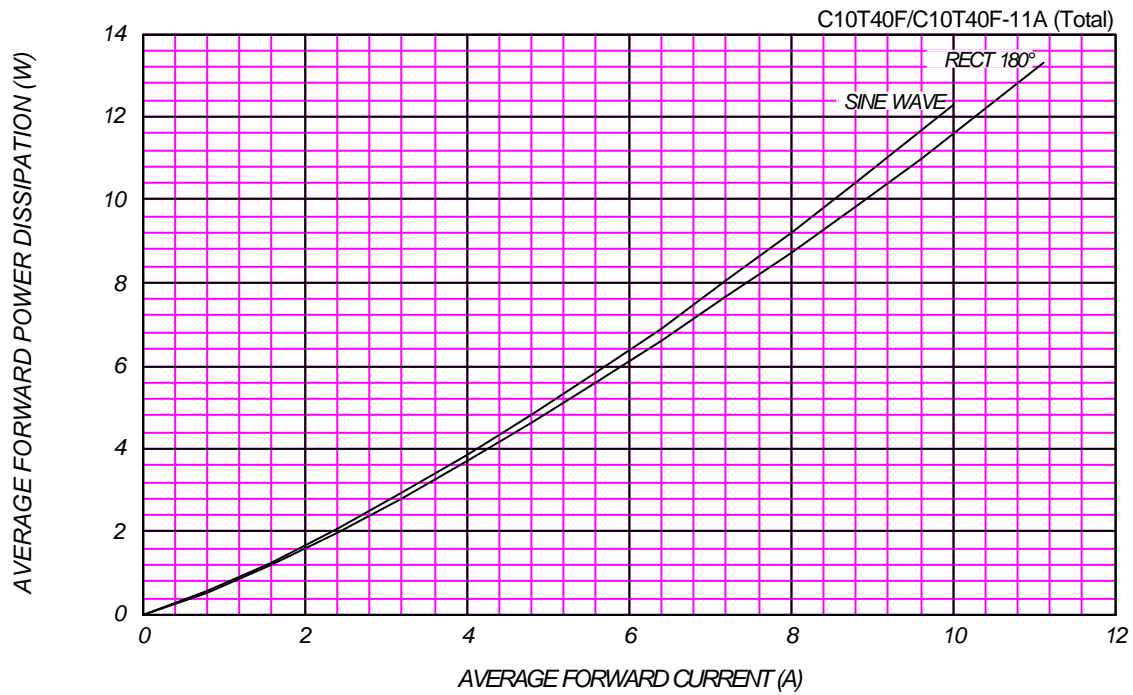
SOLDERING PAD

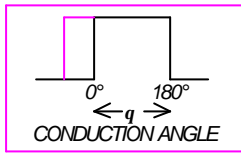


FORWARD CURRENT VS. VOLTAGE

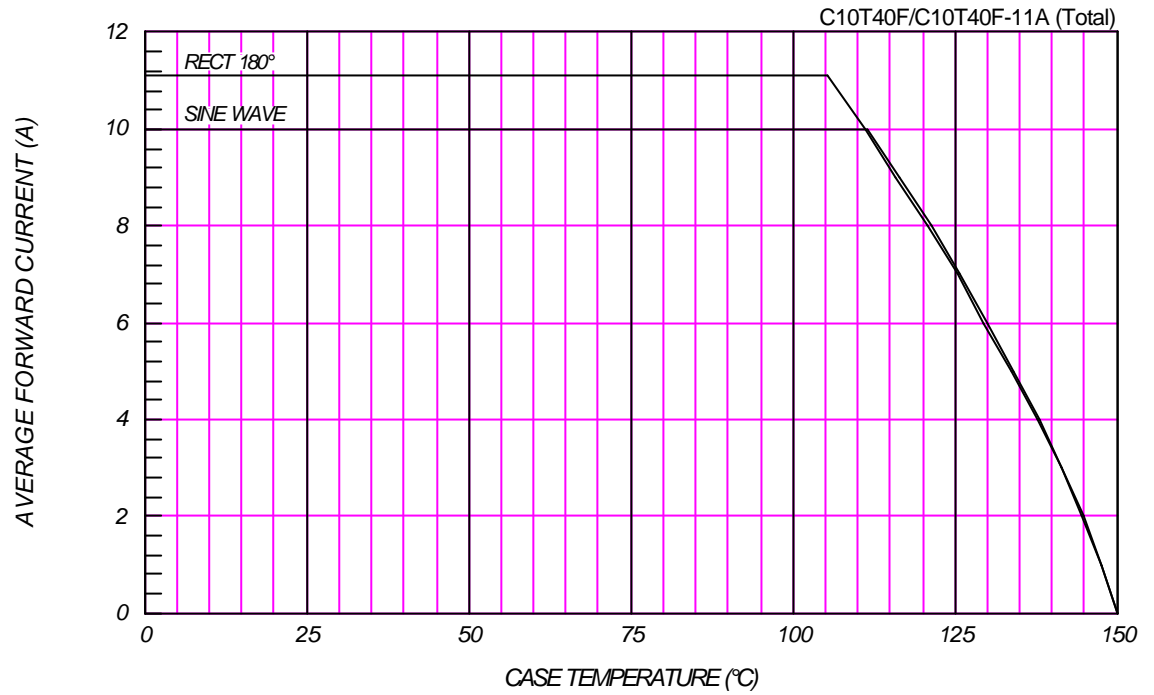


AVERAGE FORWARD POWER DISSIPATION





### AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



### SURGE CURRENT RATINGS

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

