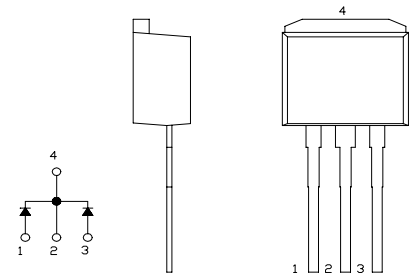


# SBD Type : C10T06Q-11A

OUTLINE DRAWING

### FEATURES

- \*Tabless TO-220
- \*Dual Diodes – Cathode Common
- \*Low Forward Voltage Drop
- \*High Surge Capability
- \*T<sub>j</sub>=150 °C operation



### Maximum Ratings

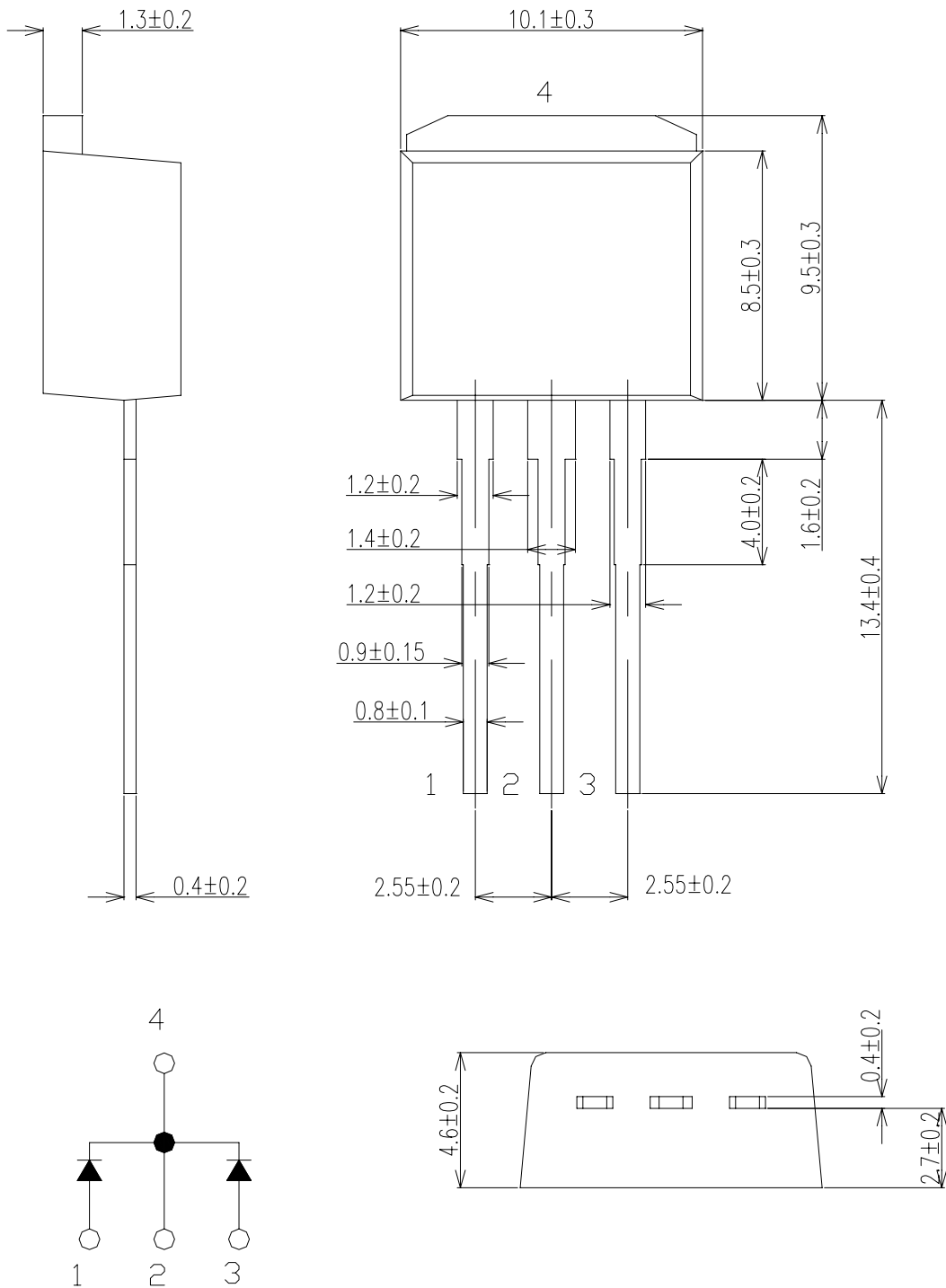
Approx Net Weight: 1.45g

Rating	Symbol	C10T06Q-11A			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60			V
Non-repetitive Peak Reverse Voltage	V <sub>RSM</sub>	65			V
Average Rectified Output Current	I <sub>O</sub>	10	T <sub>c</sub> =108°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>	110	50Hz 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

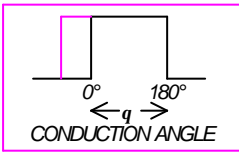
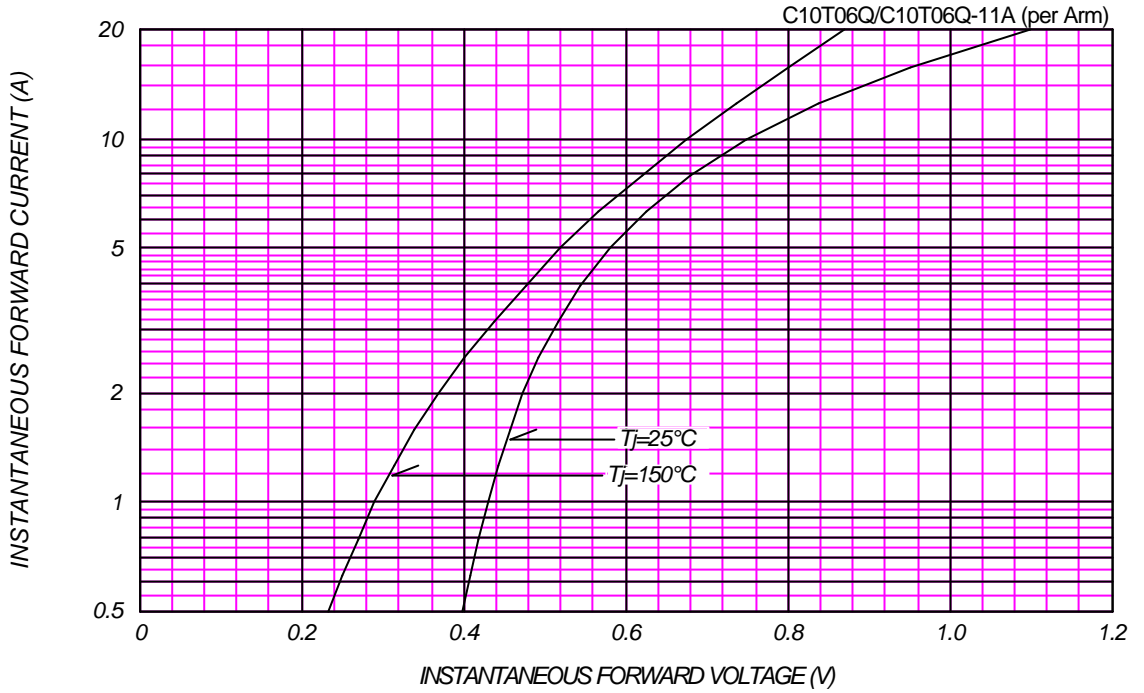
### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I <sub>RM</sub>	T <sub>j</sub> = 25°C, V <sub>RM</sub> = V <sub>RRM</sub> per arm	-	-	5	mA
Peak Forward Voltage	V <sub>FM</sub>	T <sub>j</sub> = 25°C, I <sub>FM</sub> = 5 A per arm	-	-	0.58	V
Thermal Resistance	R <sub>th(j-c)</sub>	Junction to Case	-	-	3	°C/W

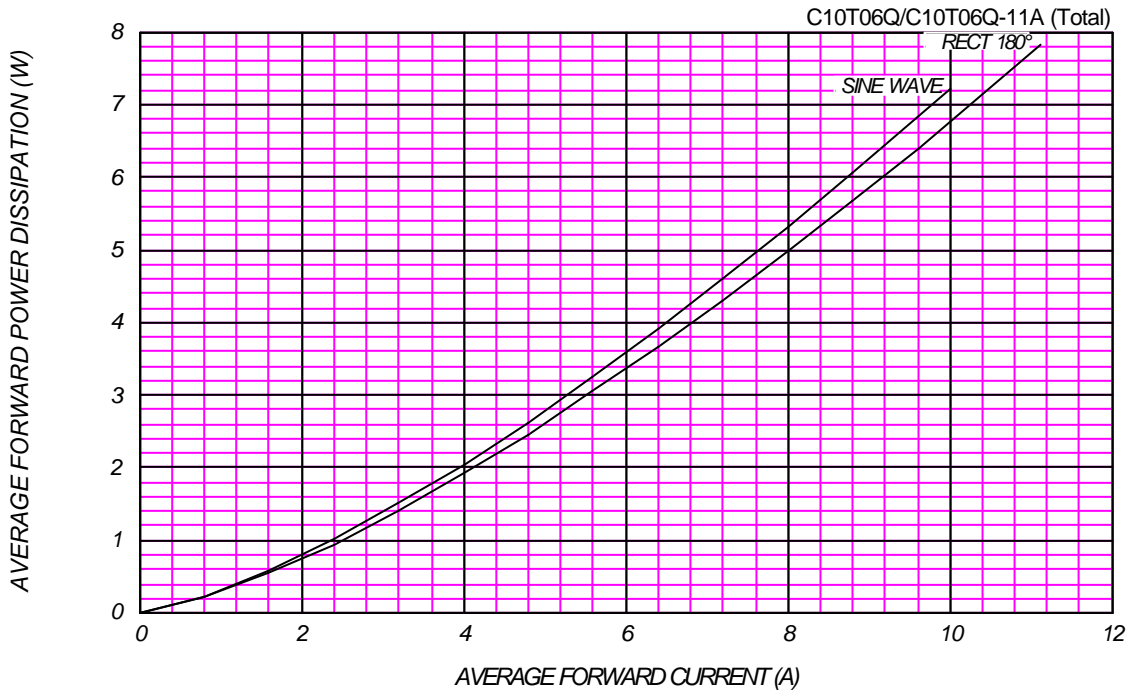
C\_T\_ 11A OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



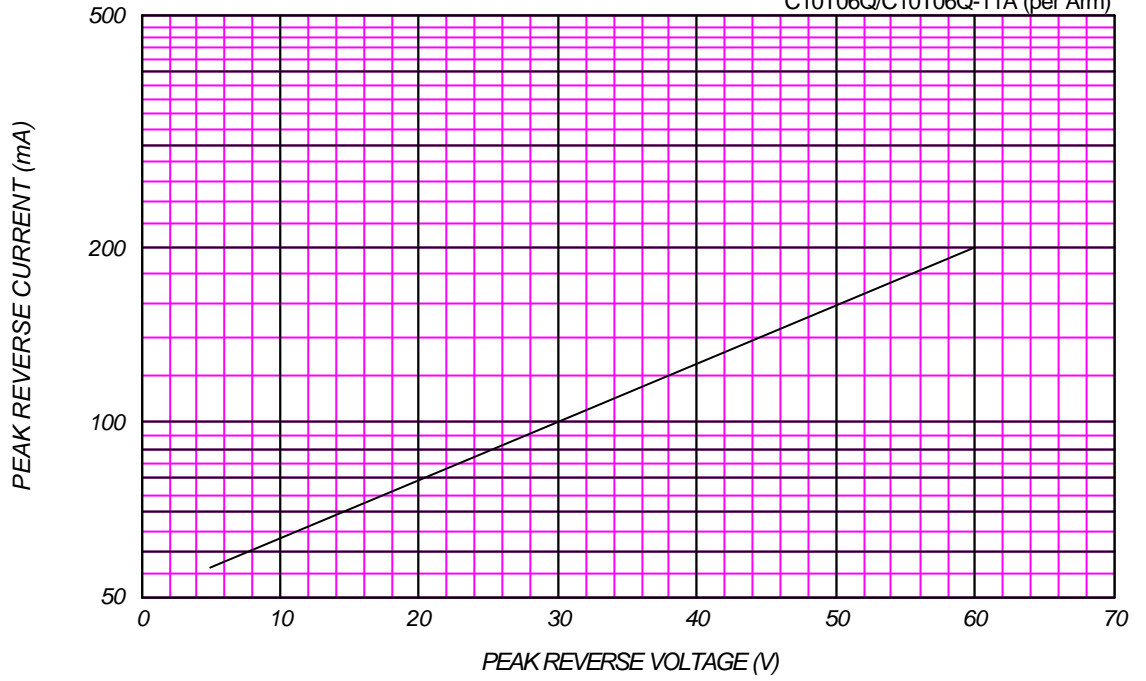
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

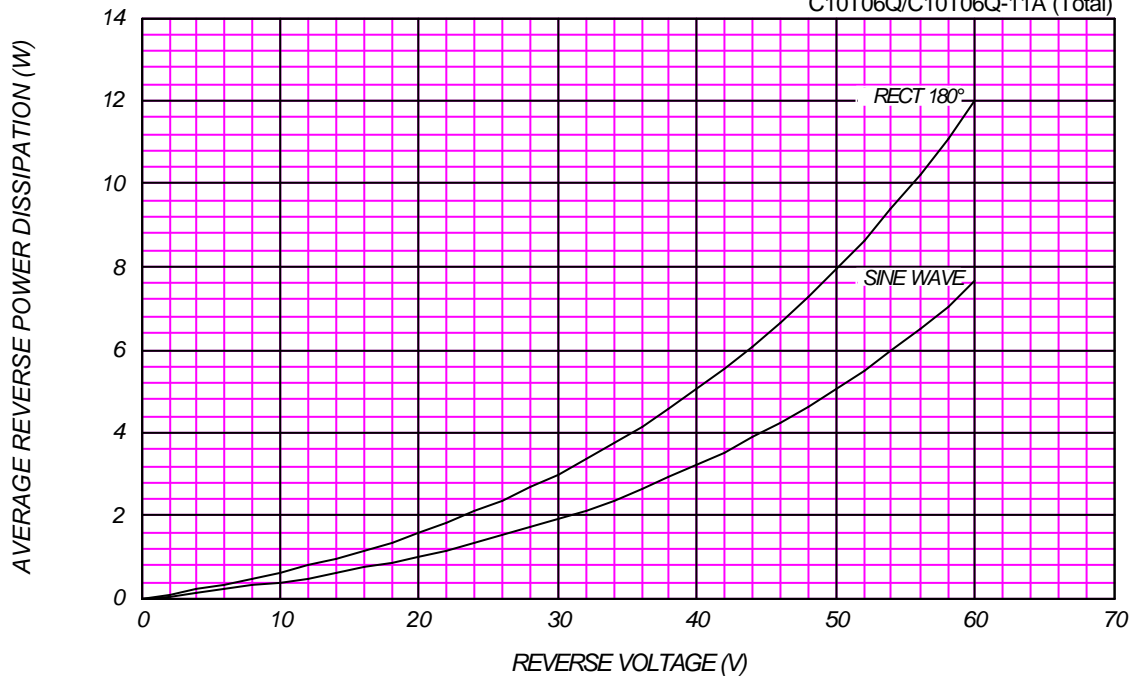
$T_j = 150\text{ }^\circ\text{C}$

C10T06Q/C10T06Q-11A (per Arm)



AVERAGE REVERSE POWER DISSIPATION

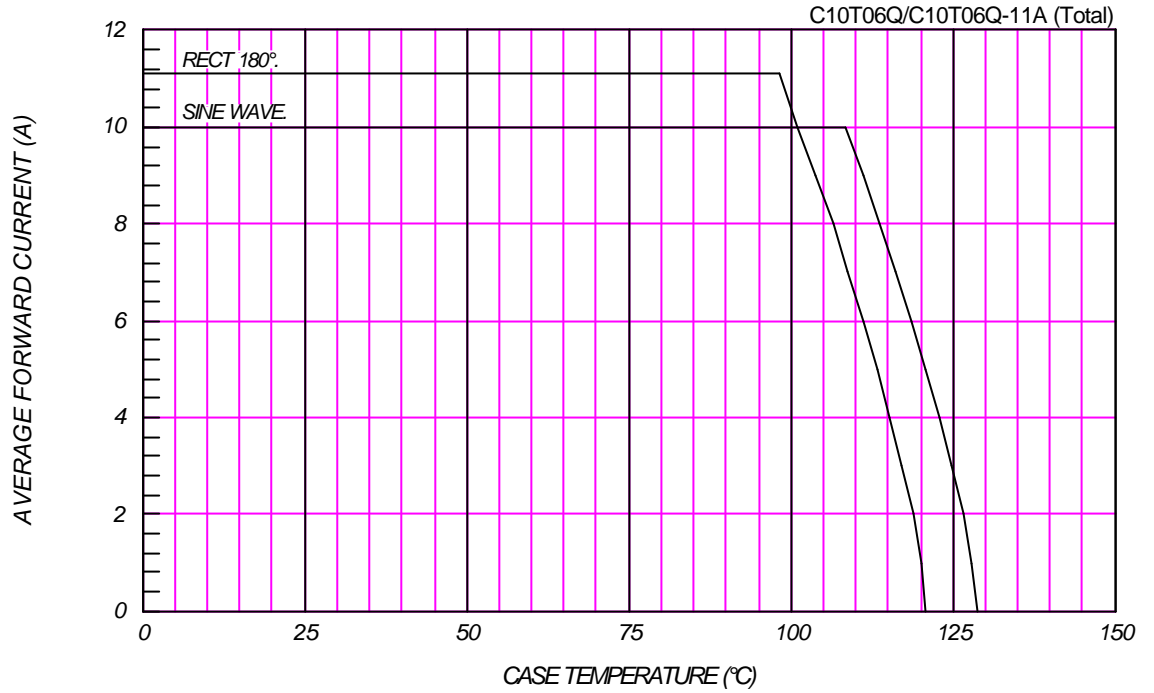
C10T06Q/C10T06Q-11A (Total)





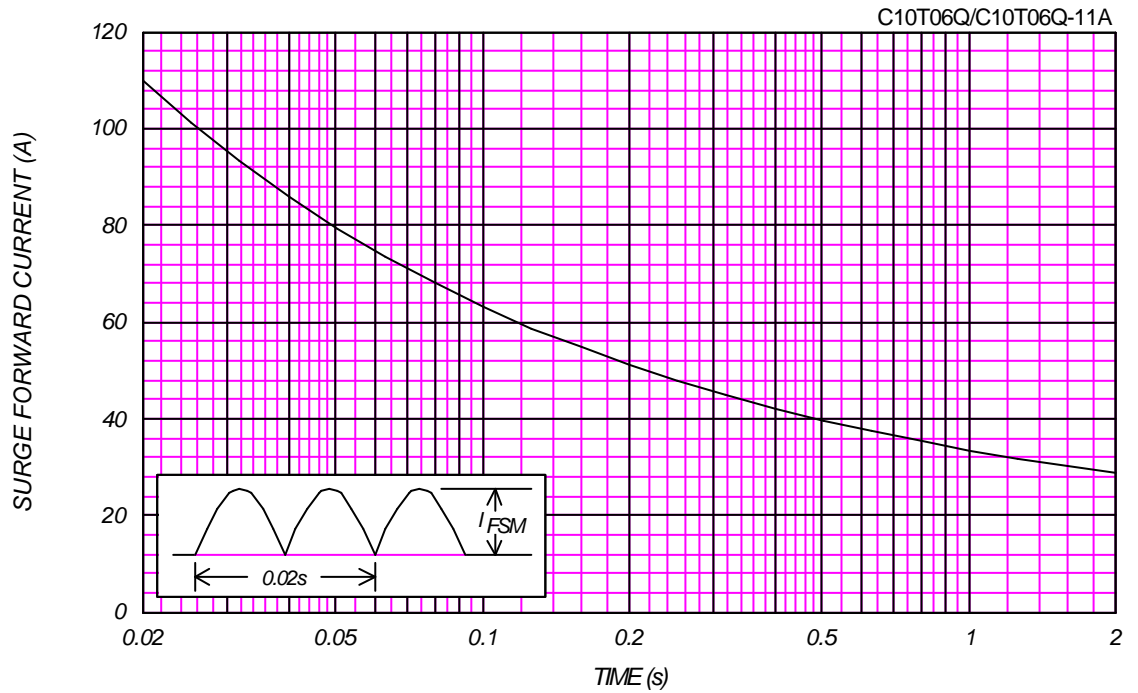
### AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$



### SURGE CURRENT RATINGS

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



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^\circ\text{C}$ ,  $V_m=20\text{mV}_{\text{RMS}}$ ,  $f=100\text{kHz}$ , Typical Value

C10T06Q/C10T06Q-11A (per Arm)

