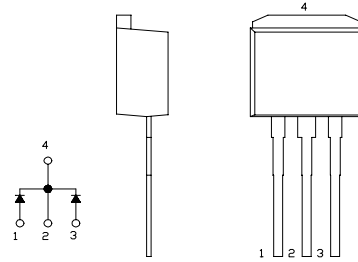


# SBD Type : C10T06QH-11A

## 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

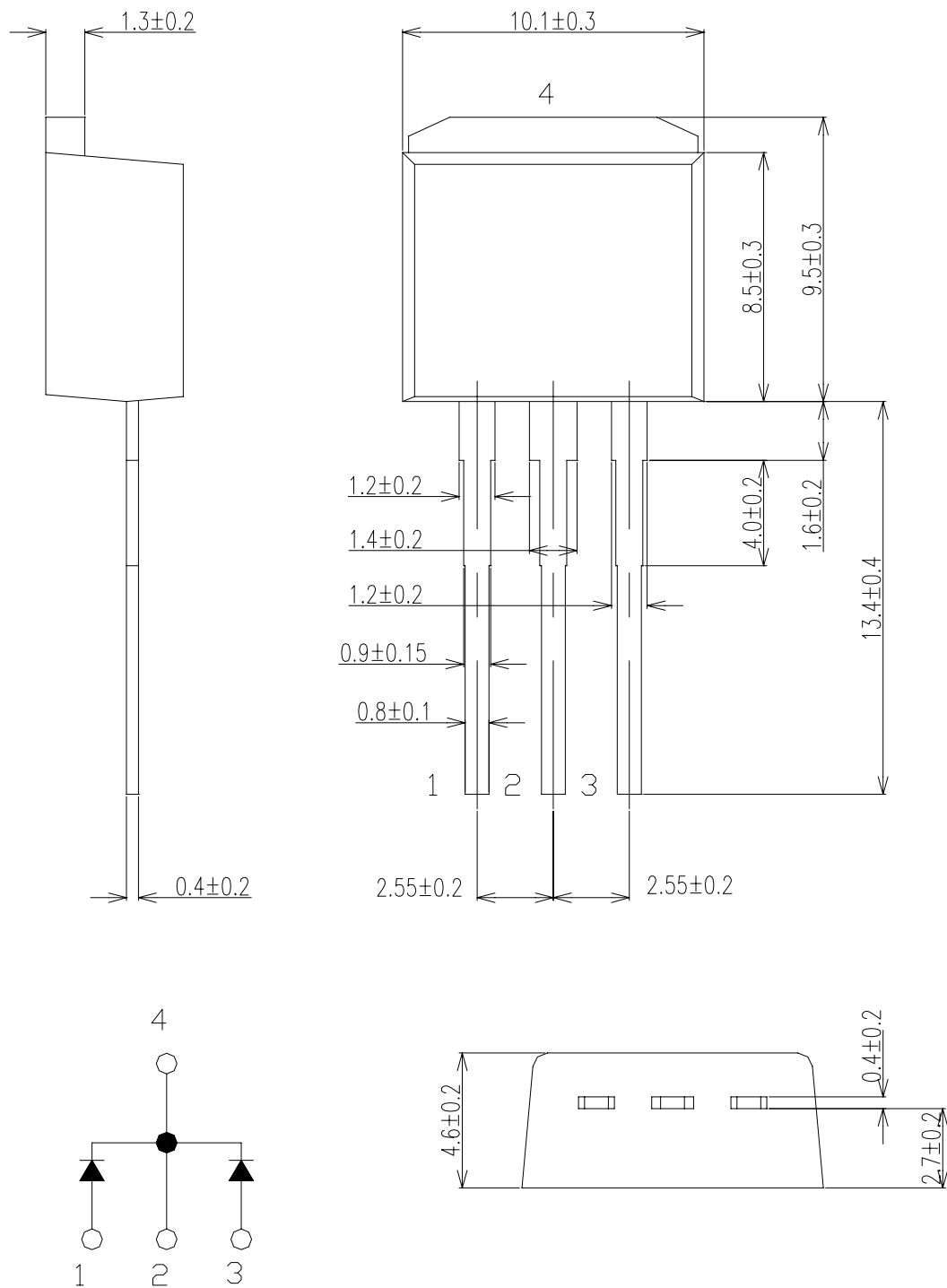
Approx Net Weight: 1.45g

Rating	Symbol	C10T06QH-11A			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60			V
Repetitive Peak Surge Reverse Voltage	V <sub>RRSM</sub>	65(pulse width ≤ 1μs    duty ≤ 1/50)			V
Average Rectified Output Current	I <sub>O</sub>	10	Tc=125°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>	120	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

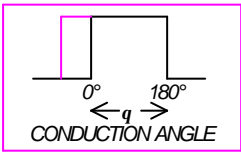
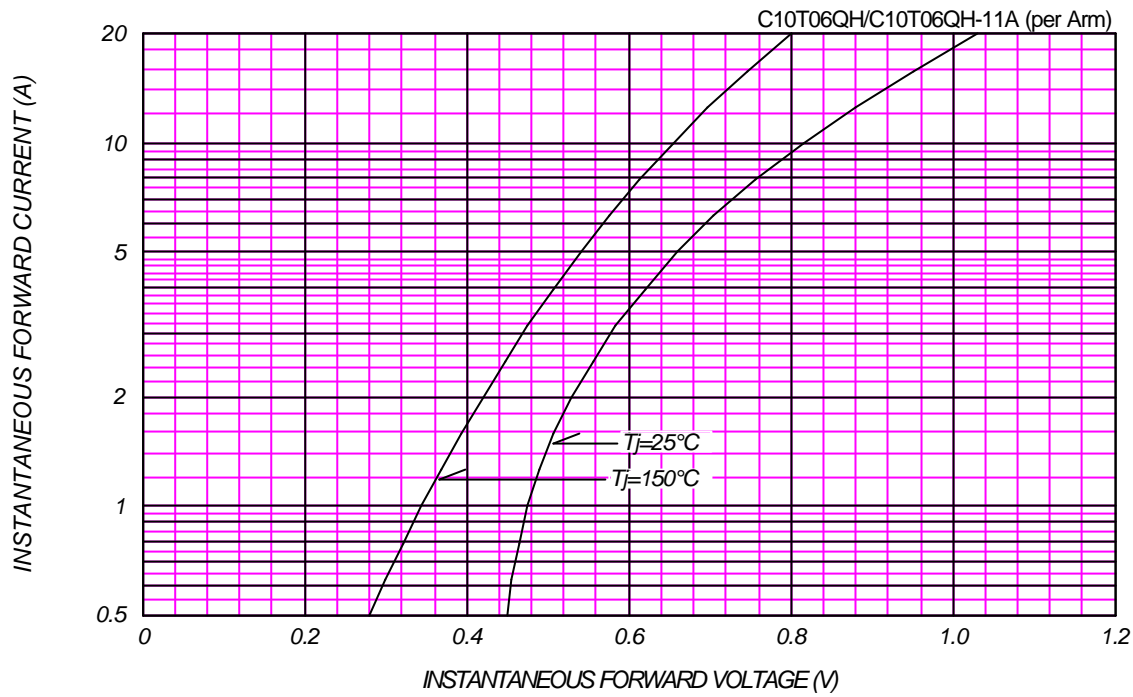
## Electrical • Thermal Characteristics

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	-	-	1	mA
Peak Forward Voltage	V <sub>FM</sub>	T <sub>j</sub> = 25°C, I <sub>FM</sub> = 5 A per arm	-	-	0.66	V
Thermal Resistance	R <sub>th(j-c)</sub>	Junction to Case	-	-	3	°C /W

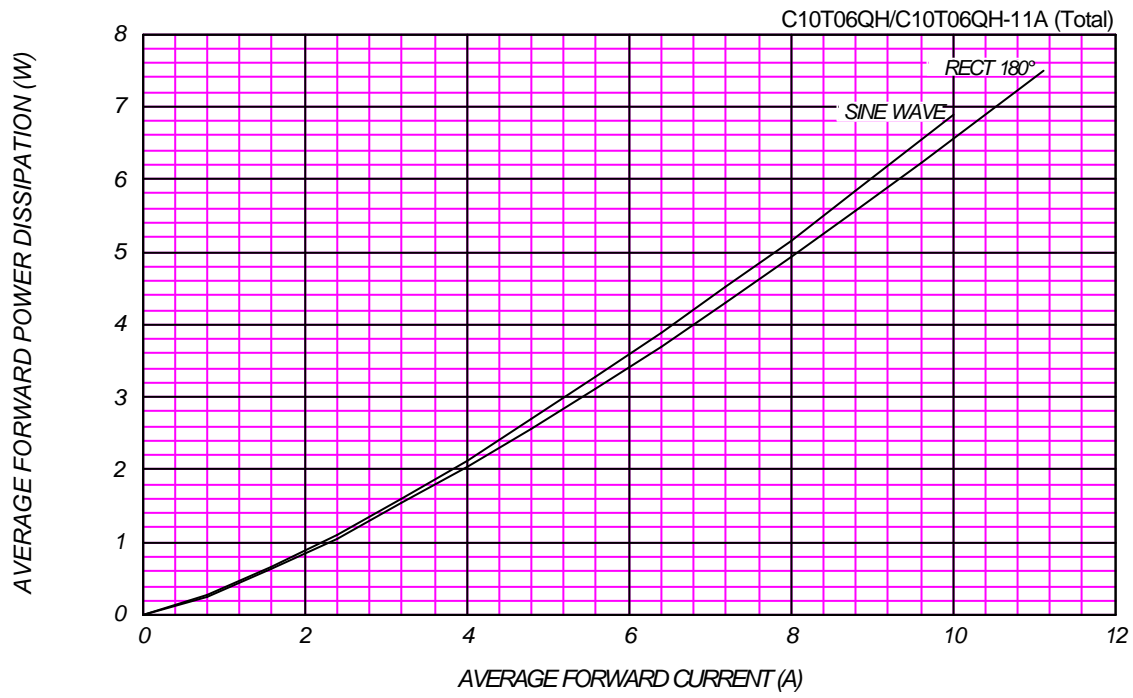
C\_T\_ 11A OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



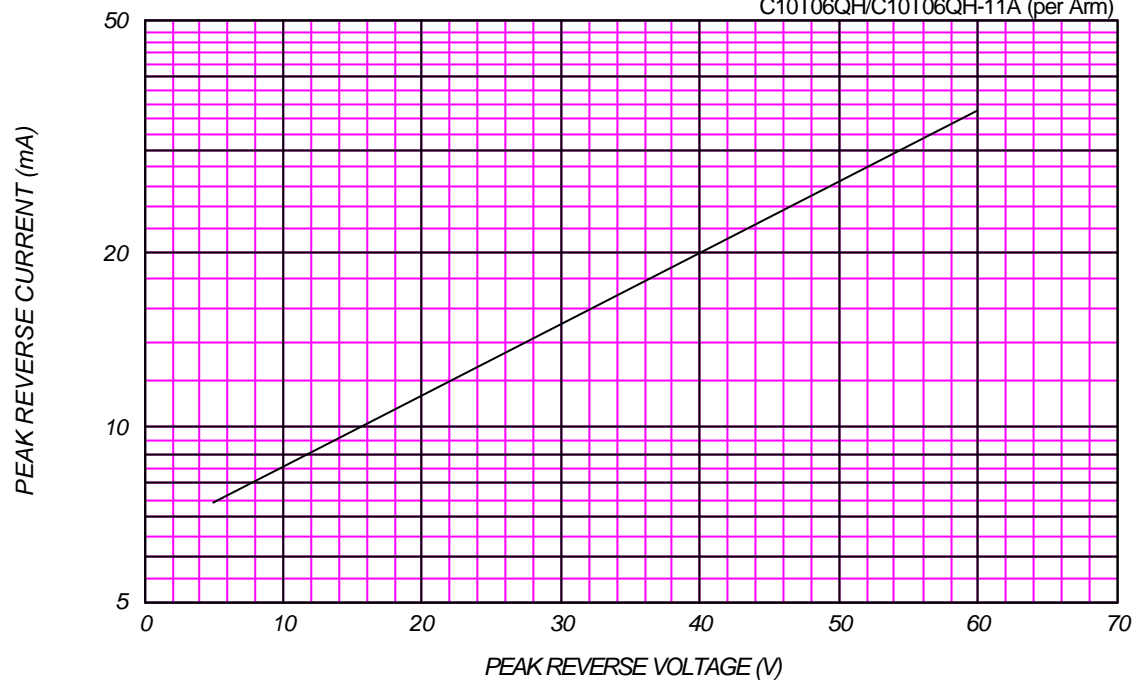
AVERAGE FORWARD POWER DISSIPATION



### PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

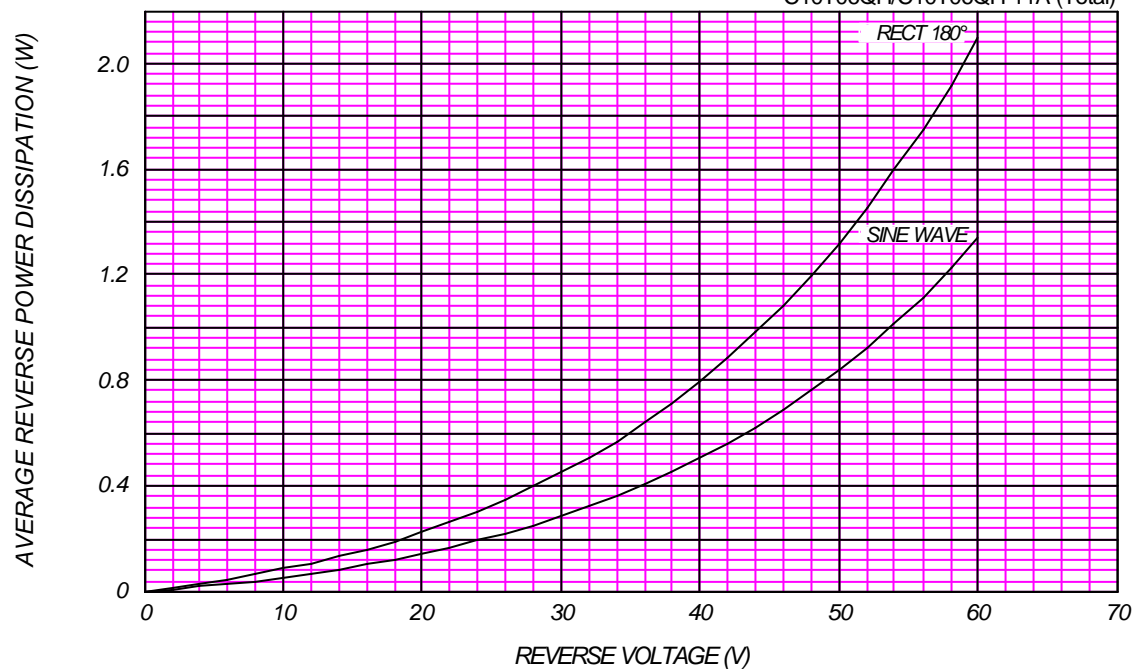
$T_j = 150\text{ }^{\circ}\text{C}$

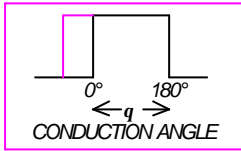
C10T06QH/C10T06QH-11A (per Arm)



### AVERAGE REVERSE POWER DISSIPATION

C10T06QH/C10T06QH-11A (Total)

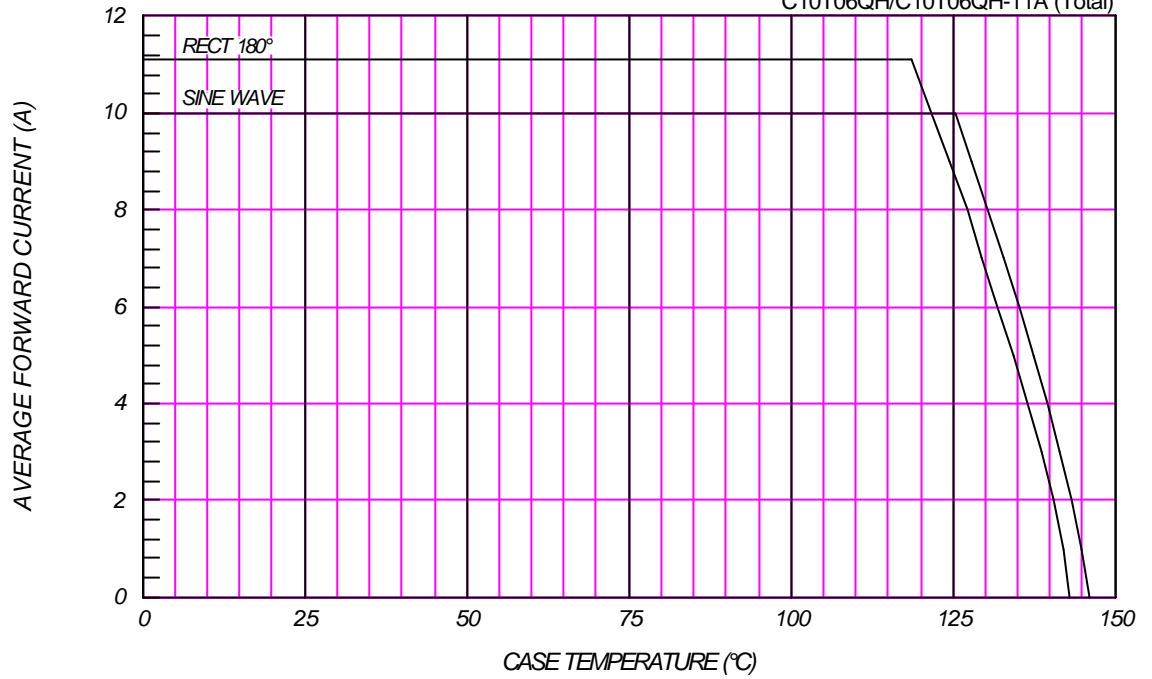




### AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$

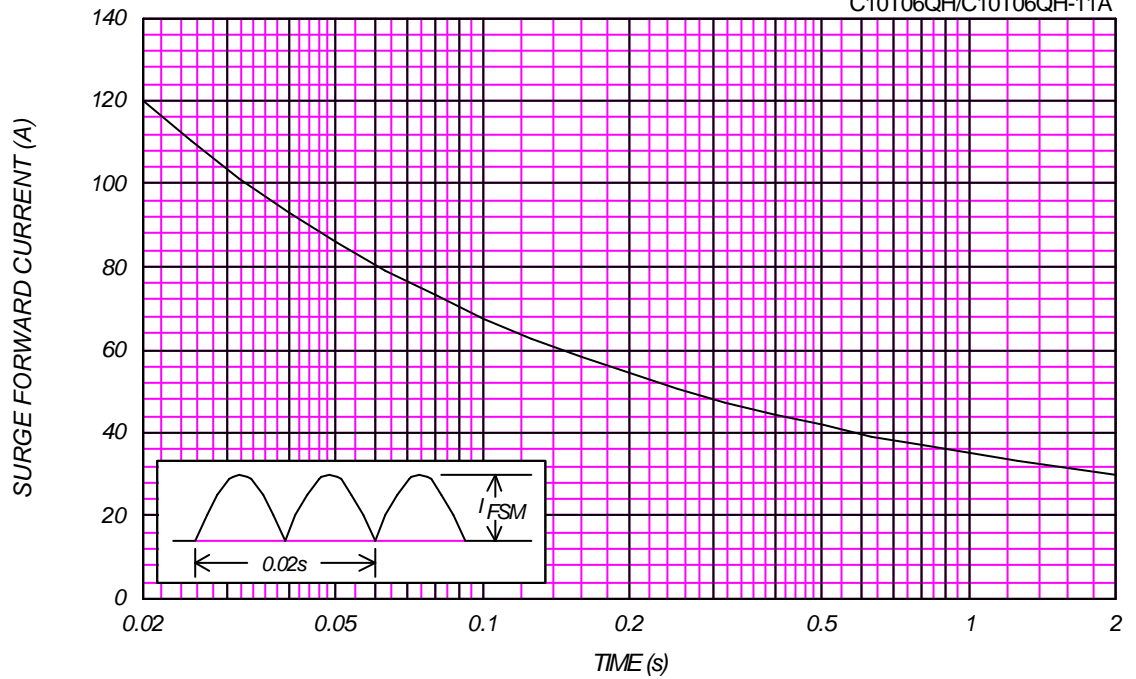
C10T06QH/C10T06QH-11A (Total)



### SURGE CURRENT RATINGS

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

C10T06QH/C10T06QH-11A



# JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

C10T06QH/C10T06QH-11A (per Arm)

