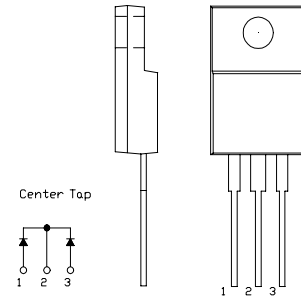


SBD Type : FCH20B10

OUTLINE DRAWING

FEATURES

- *TO-220AB Case
- *Fully Molded
- *Dual Diodes – Cathode Common
- *Low Forward Voltage Drop
- *High Surge Capability
- *Tj=150 °C operation



Maximum Ratings

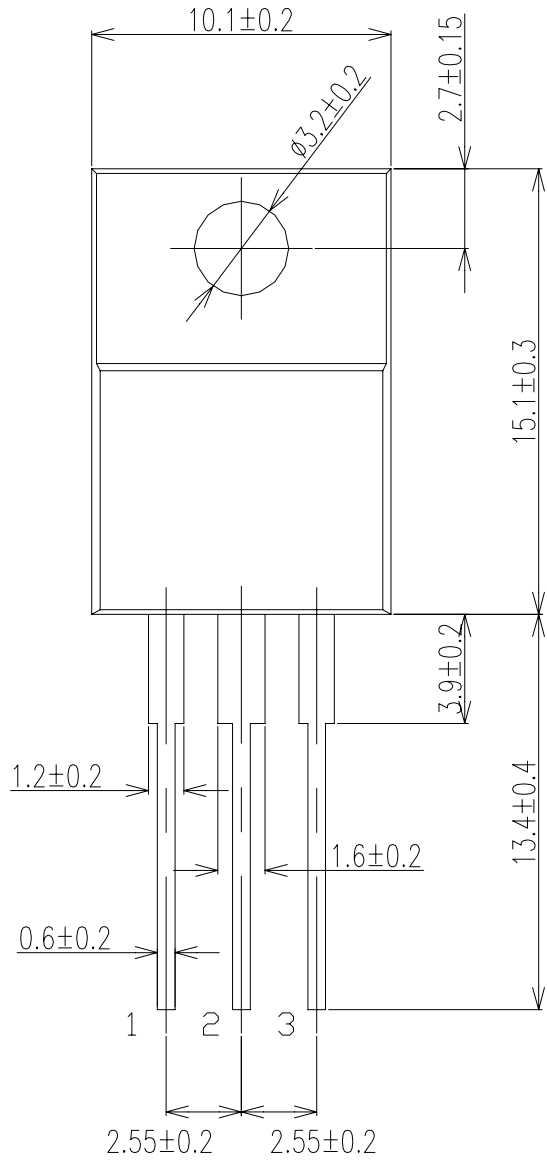
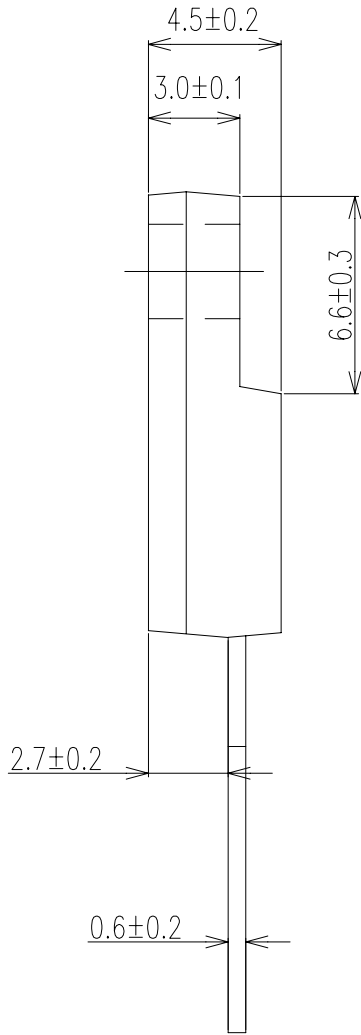
Approx Net Weight: 1.75g

Rating	Symbol	FCH20B10			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100			V
Average Rectified Output Current	I _O	20	Tc=105°C	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	22.2			A
Surge Forward Current	I _{FSM}	180	50Hz Full Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	-40 to +150			°C
Storage Temperature Range	T _{stg}	-40 to +150			°C
Mounting torque	F _{tor}	recommended torque = 0.5			N•m

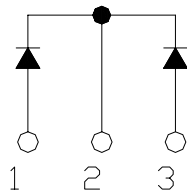
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$ per Arm	-	-	1	mA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 10\text{ A}$ per Arm	-	-	0.91	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2.3	°C /W
	$R_{th(c-f)}$	Cace to Fin	-	-	1.5	°C /W

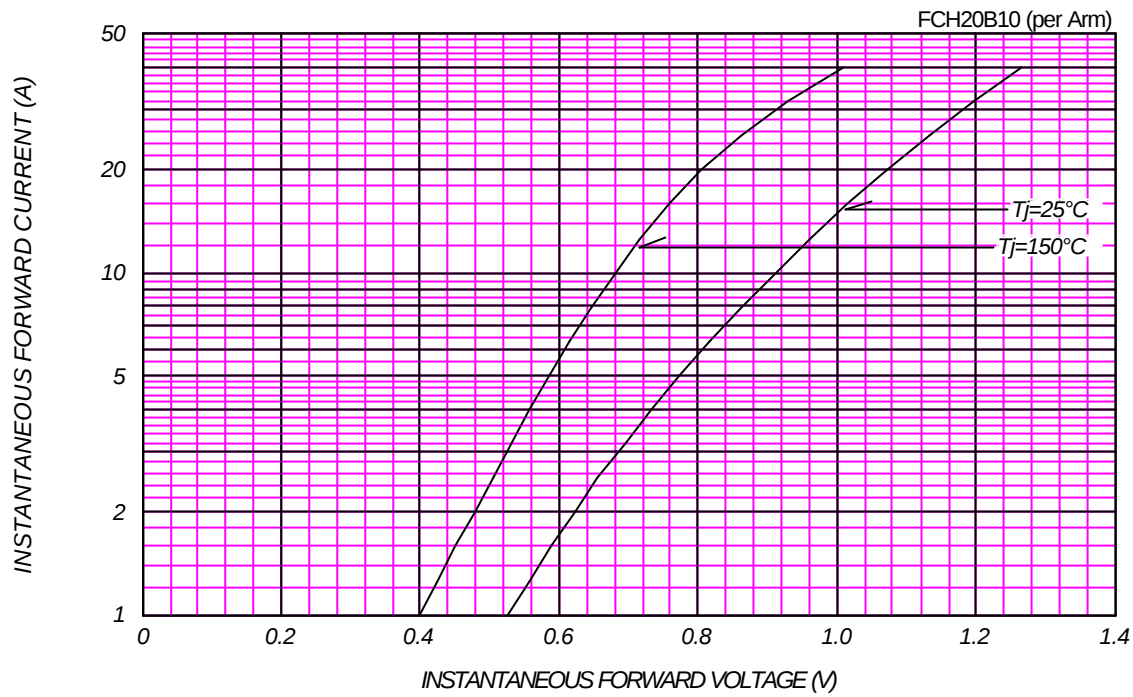
FCH_B_ OUTLINE DRAWING (Dimensions in mm)



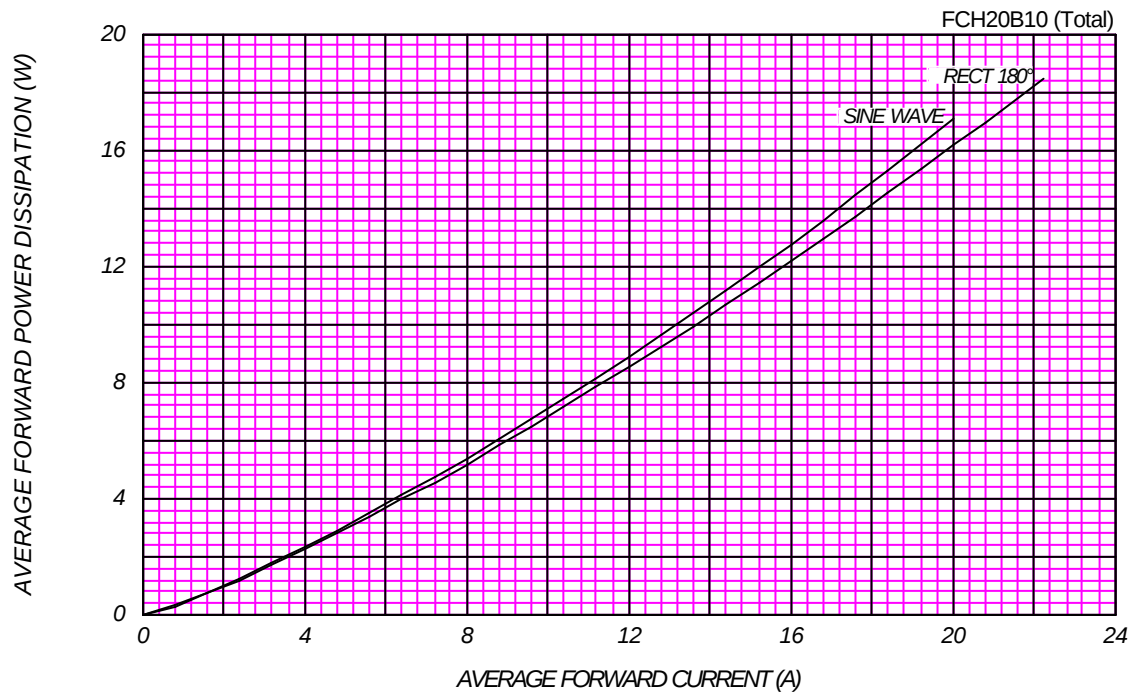
Center Tap



FORWARD CURRENT VS. VOLTAGE



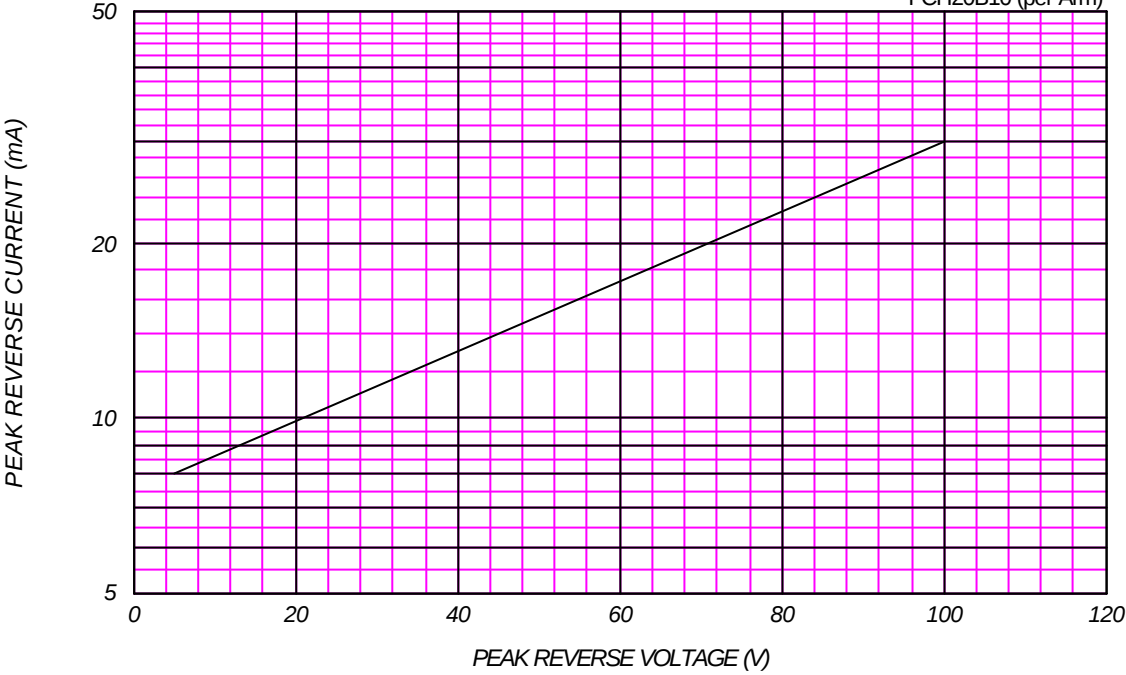
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

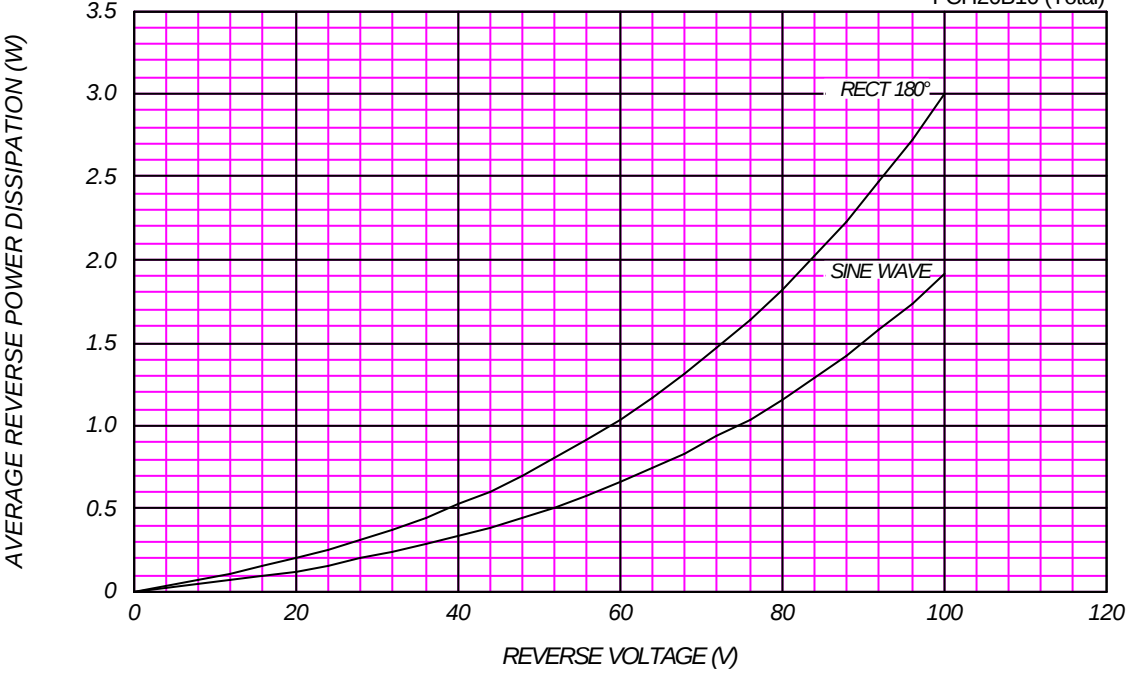
Tj= 150 °C

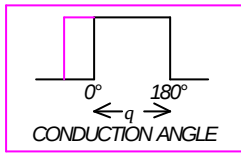
FCH20B10 (per Arm)



AVERAGE REVERSE POWER DISSIPATION

FCH20B10 (Total)

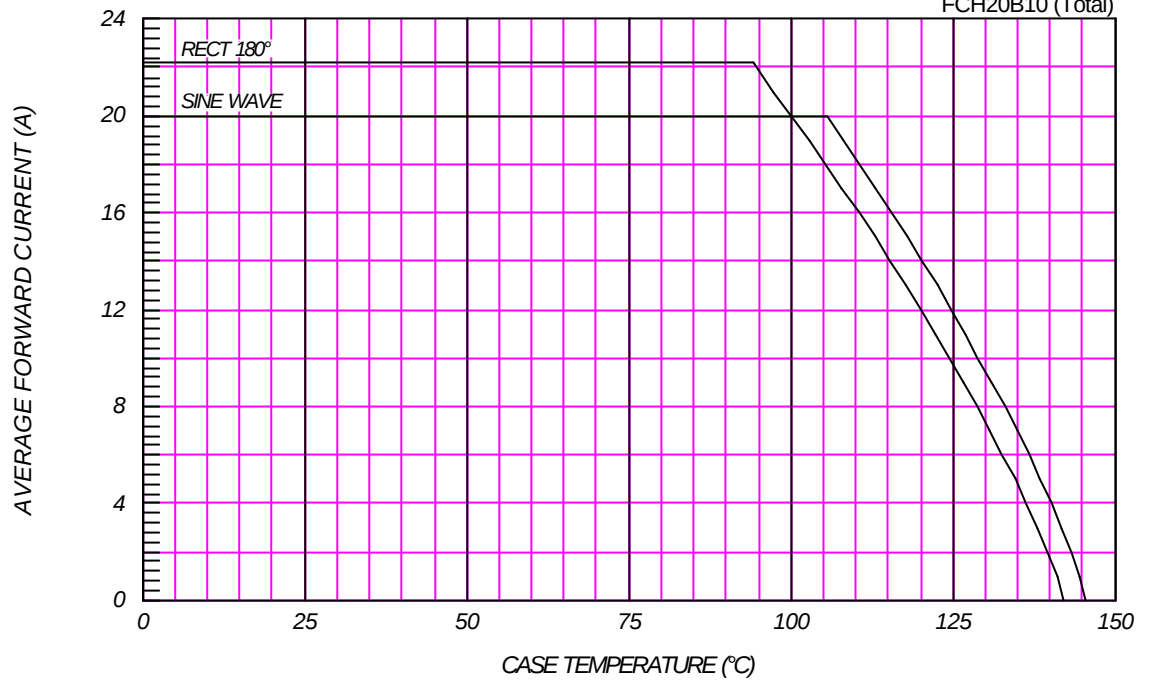




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 100V$

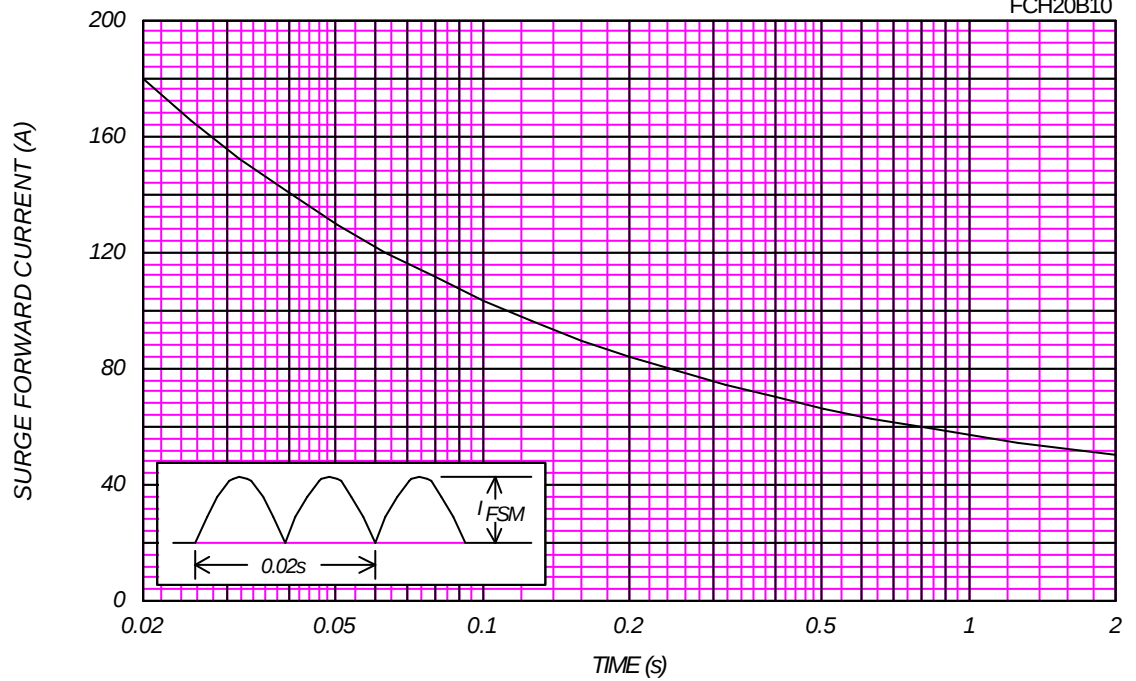
FCH20B10 (Total)



SURGE CURRENT RATINGS

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

FCH20B10



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

FCH20B10 (per Arm)

