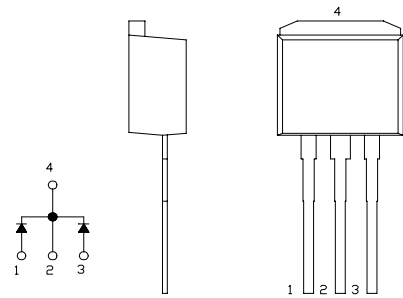


SBD Type : TCH30A15-11A

OUTLINE DRAWING

FEATURES

- *Tabless TO-220
- Packaged in 24mm Tape and Reel
- *Dual Diodes – Cathode Common
- *Low Forward Voltage Drop
- *High Surge Capability
- *Tj=150 °C operation



Maximum Ratings

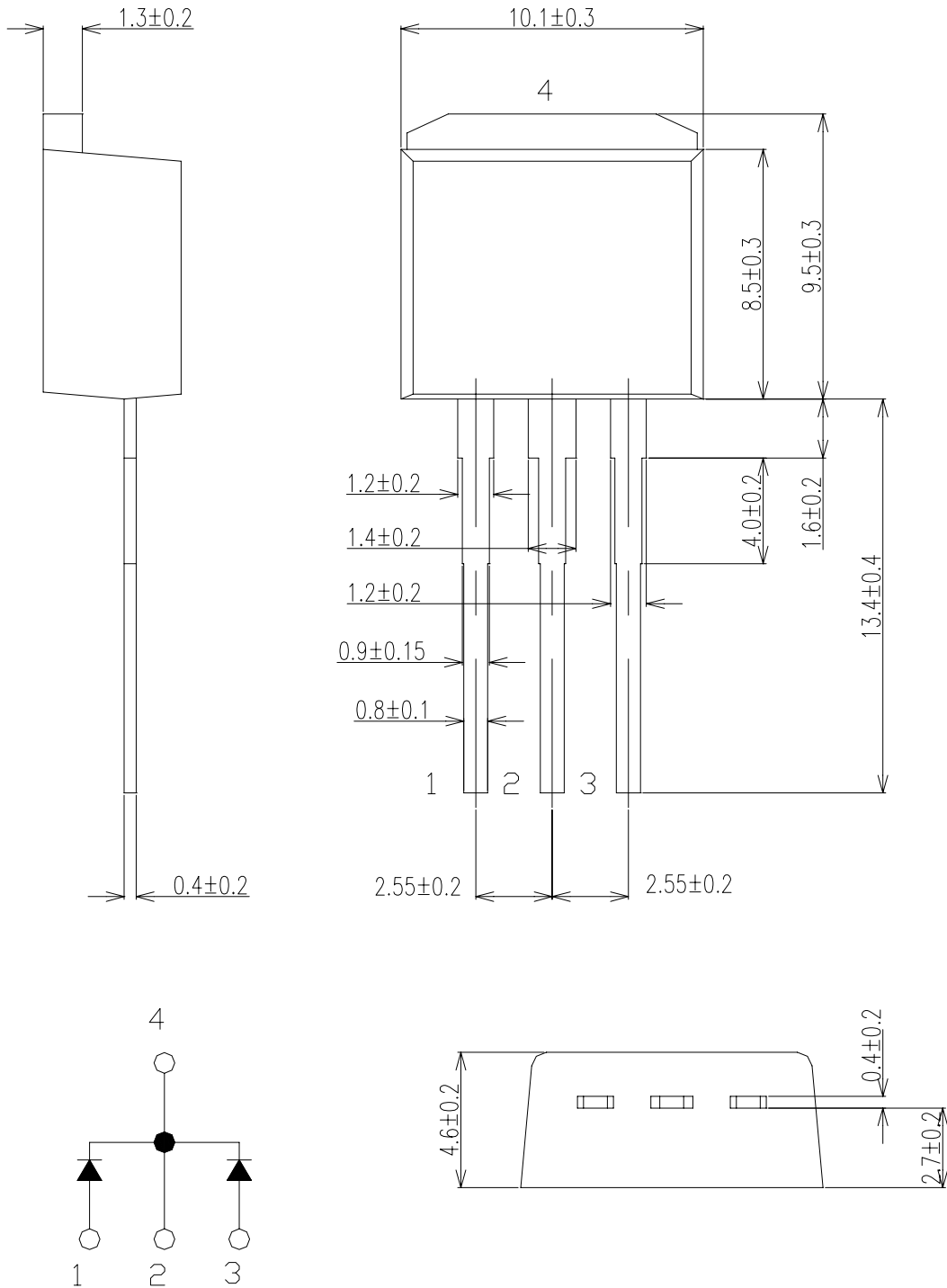
Approx Net Weight: 1.45g

Rating	Symbol	TCH30A15-11A			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150			V
Average Rectified Output Current	I_O	30	$T_c=103^{\circ}C$	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	33.3			A
Surge Forward Current	I_{FSM}	250	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

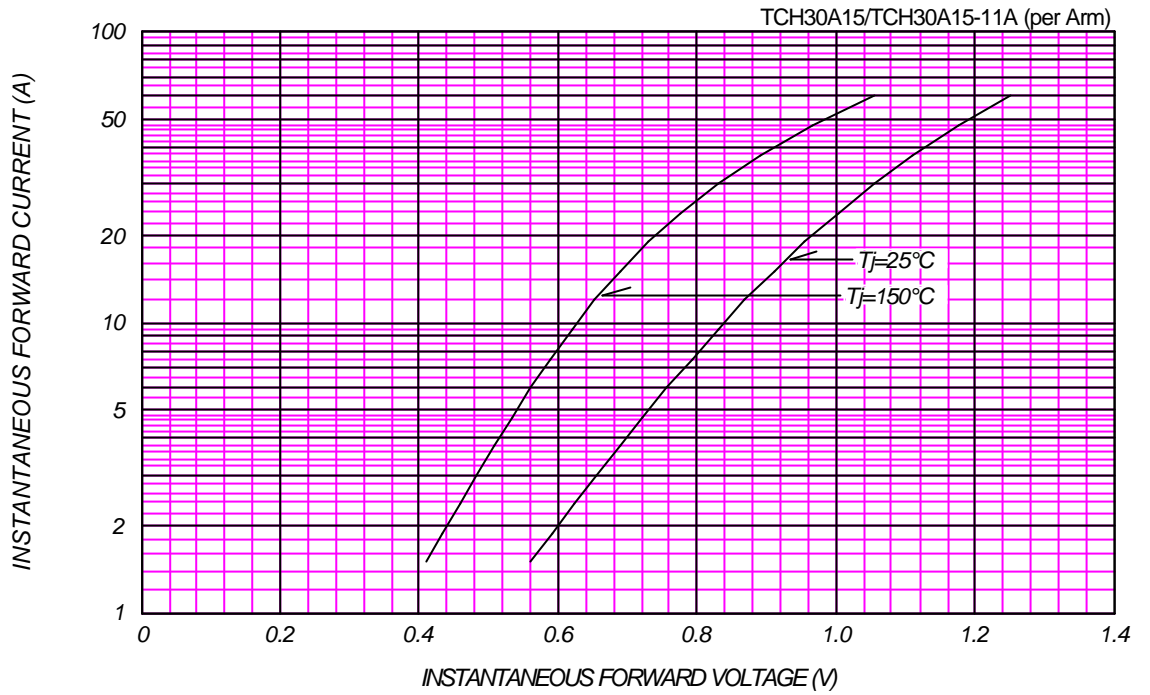
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$ per arm	-	-	2	mA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}C, I_{FM}= 15 A$ per arm	-	-	0.91	V
Thermal Resistance (Junction to Case)	$R_{th(j-c)}$	Junction to Case	-	-	1.5	°C /W

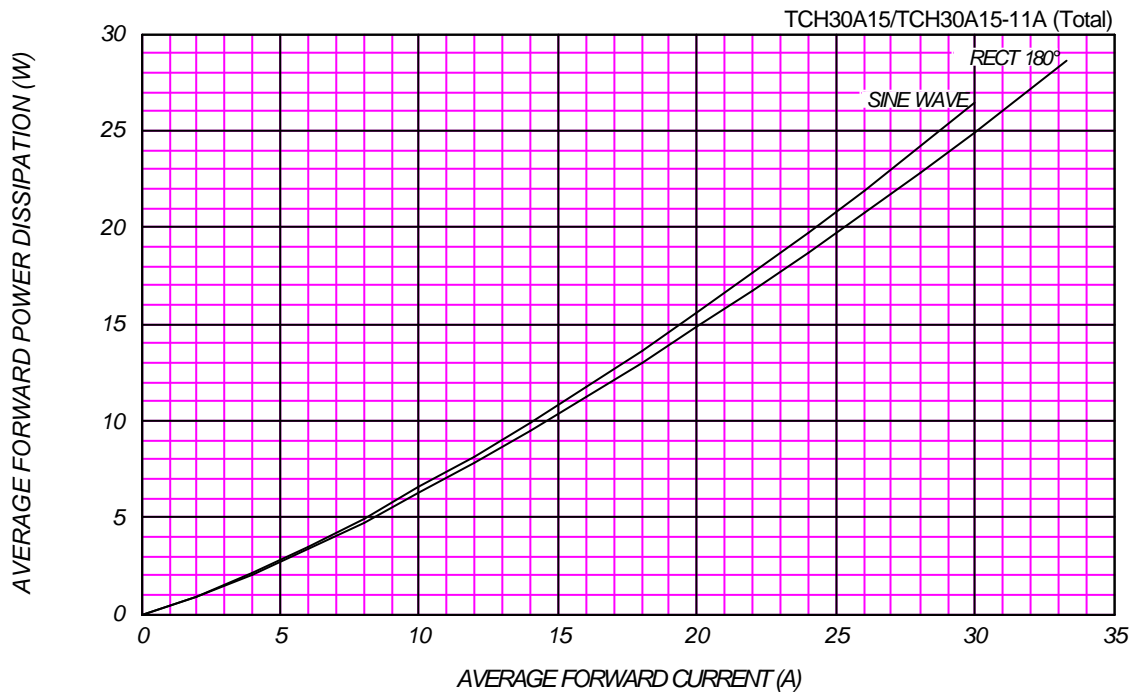
C_T_ 11A OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



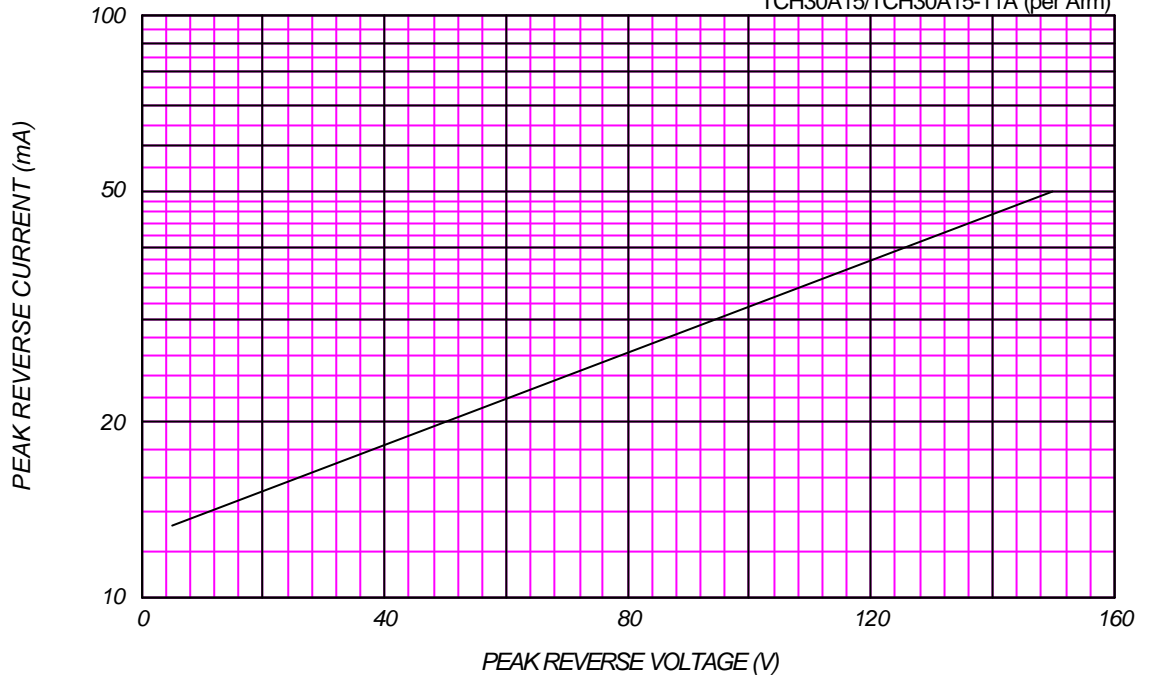
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

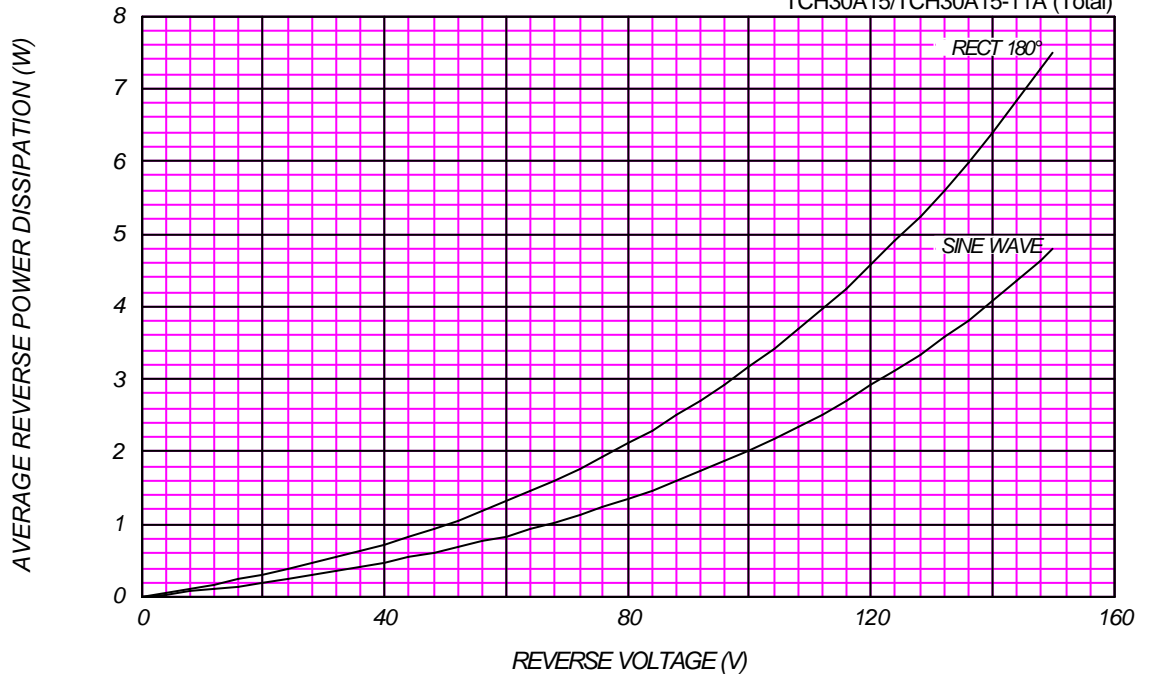
T_j = 150 °C

TCH30A15/TCH30A15-11A (per Arm)



AVERAGE REVERSE POWER DISSIPATION

TCH30A15/TCH30A15-11A (Total)

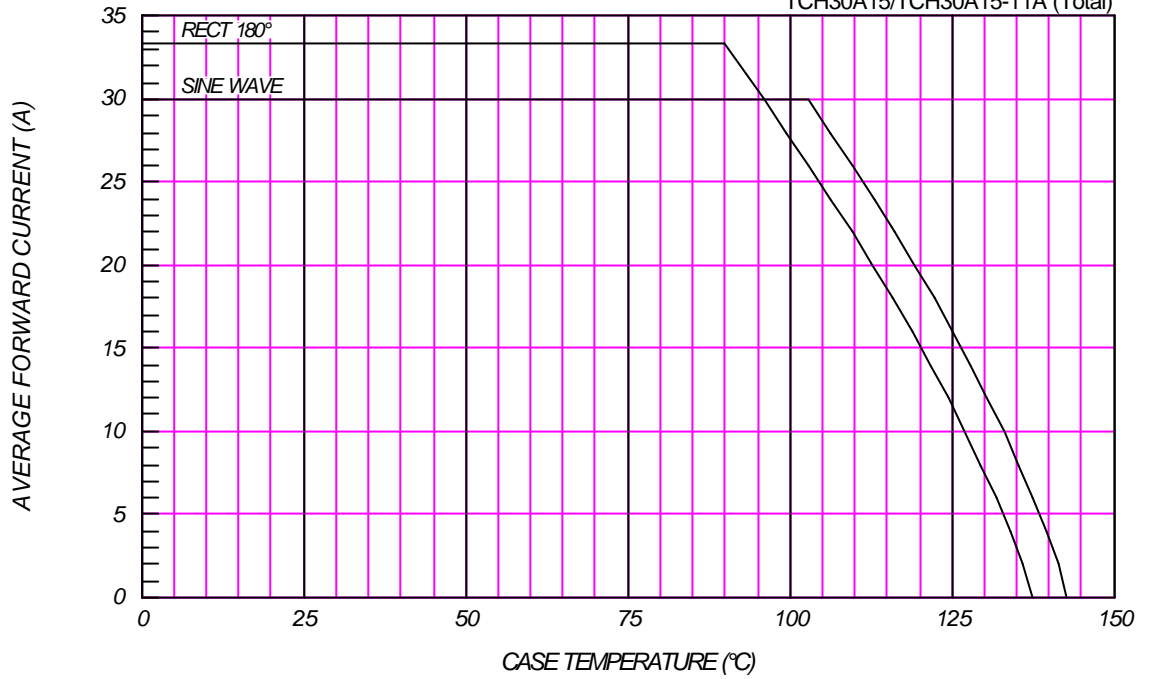




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 150V$

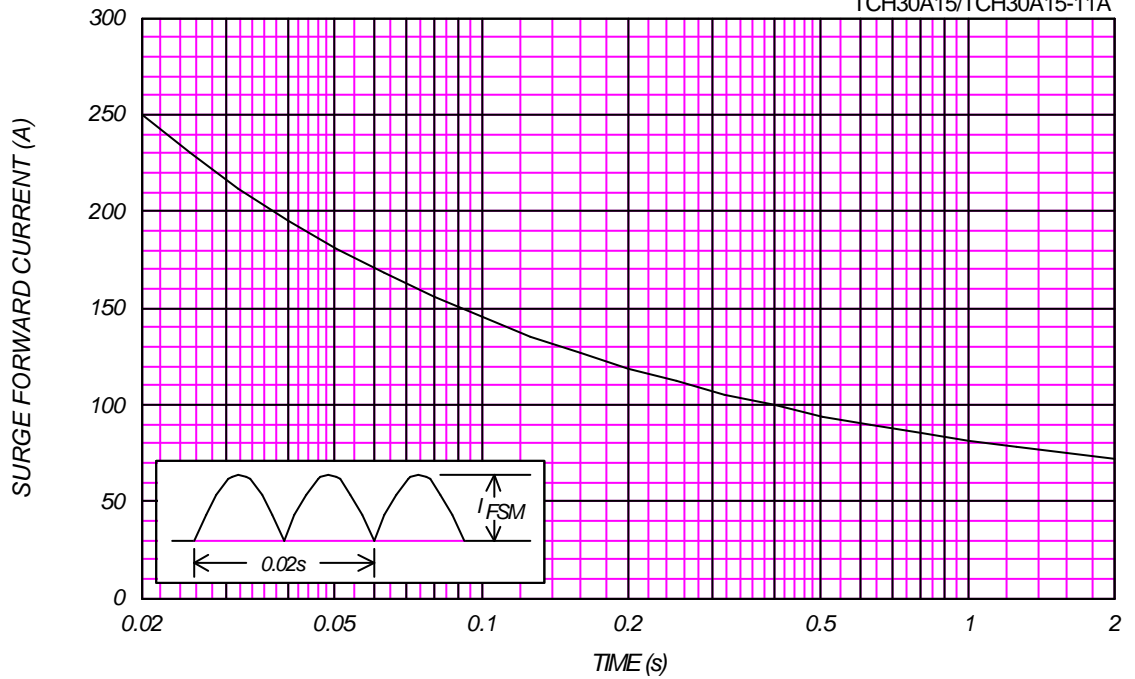
TCH30A15/TCH30A15-11A (Total)



SURGE CURRENT RATINGS

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

TCH30A15/TCH30A15-11A



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

TCH30A15/TCH30A15-11A (per Arm)

