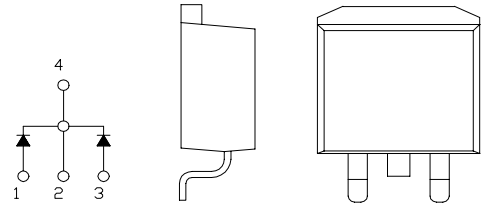


SBD Type : TCH30A15

OUTLINE DRAWING

FEATURES

- *SQUARE-PAK TO-263AB(SMD)
- Packaged in 24mm Tape and Reel
- *Dual Diodes – Cathode Common
- *Low Forward Voltage Drop
- *High Surge Capability
- *Tj=150 °C operation



Maximum Ratings

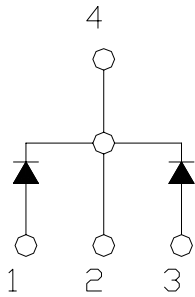
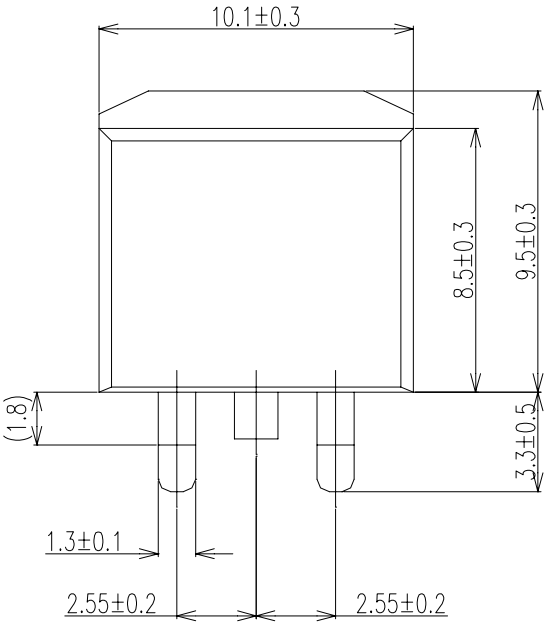
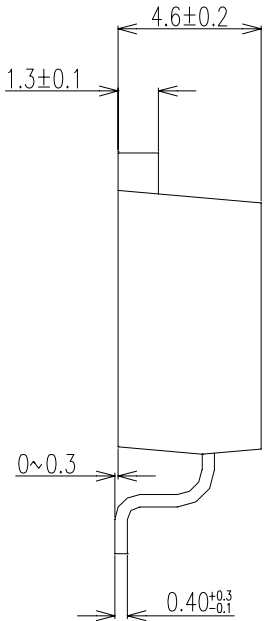
Approx Net Weight: 1.4g

Rating	Symbol	TCH30A15			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	150			V
Average Rectified Output Current	I _O	30	Tc=103°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

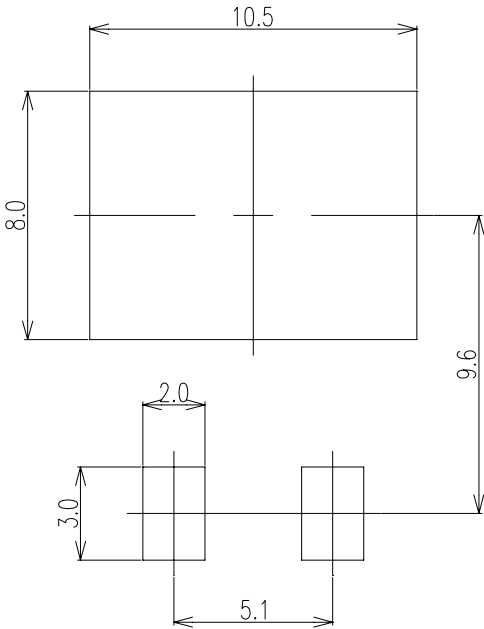
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj= 25°C, $V_{RM}= V_{RRM}$ per arm	-	-	2	mA
Peak Forward Voltage	V_{FM}	Tj= 25°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

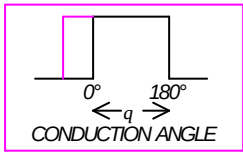
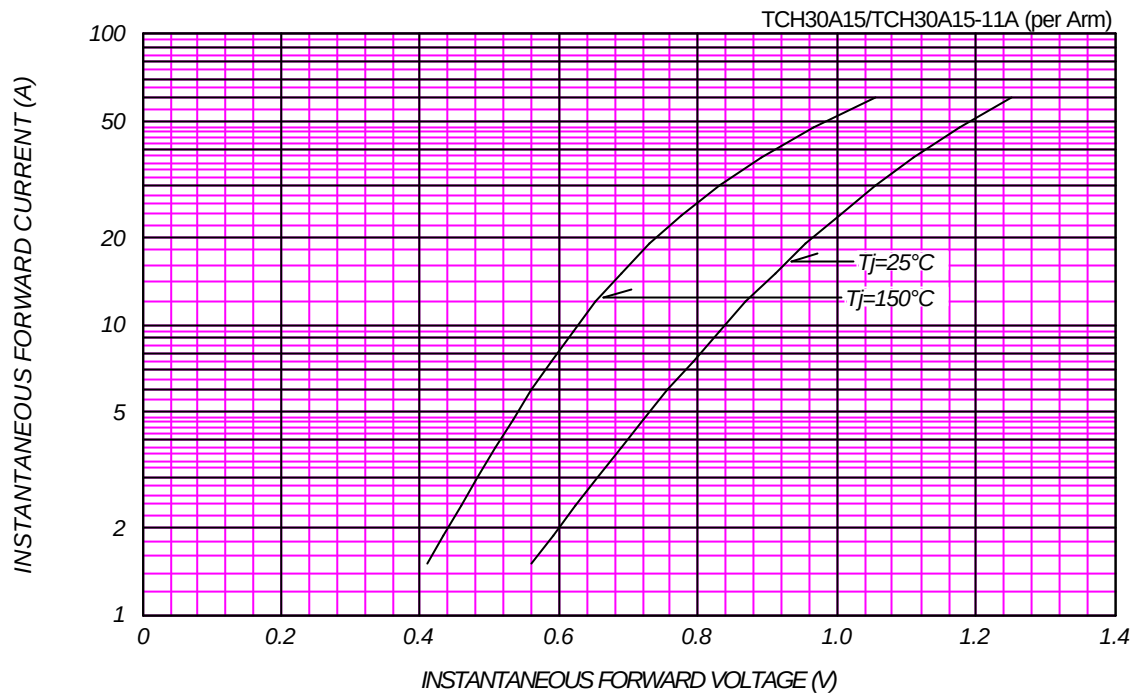
C_T_ OUTLINE DRAWING (Dimensions in mm)



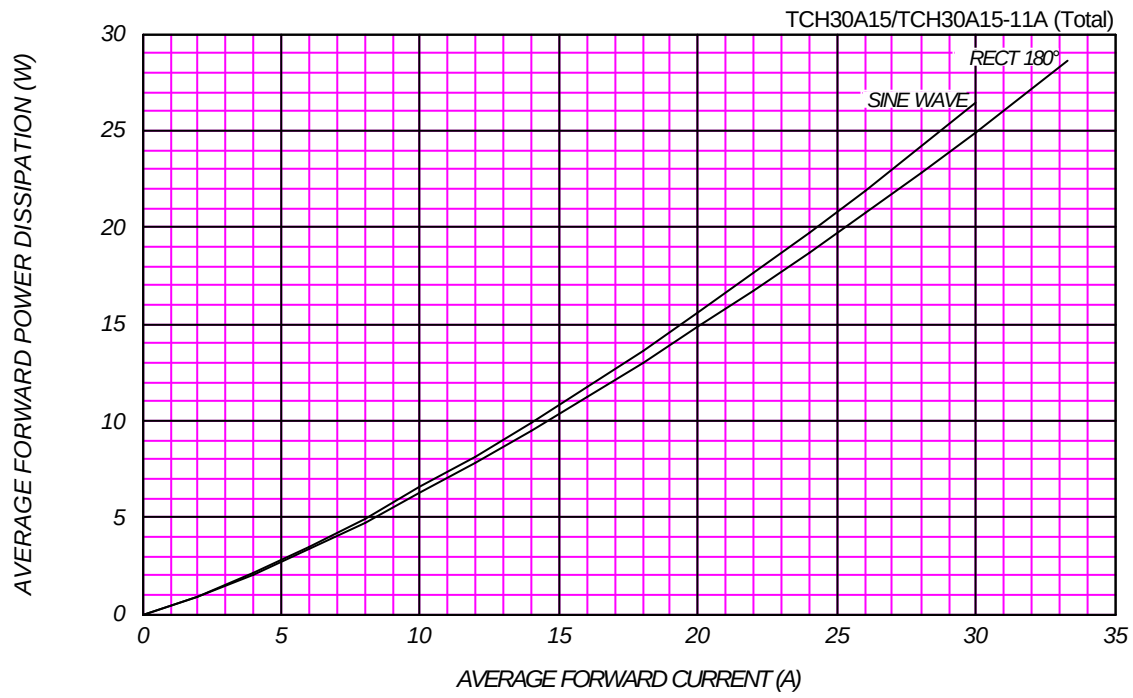
SOLDERING PAD



FORWARD CURRENT VS. VOLTAGE



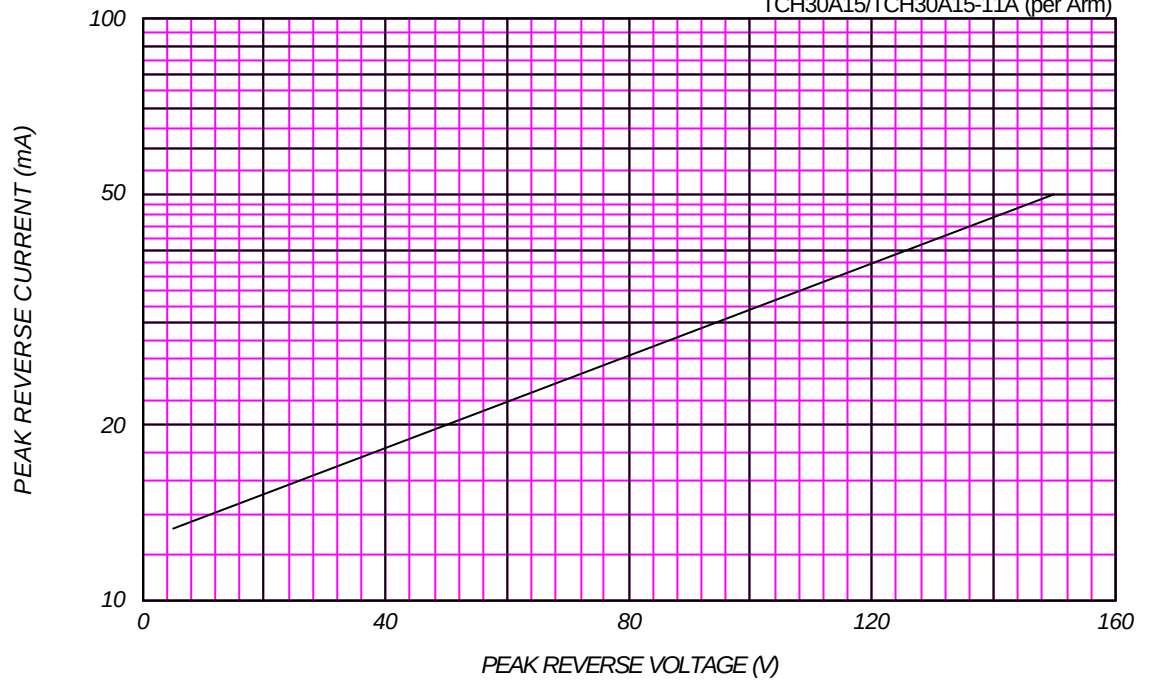
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

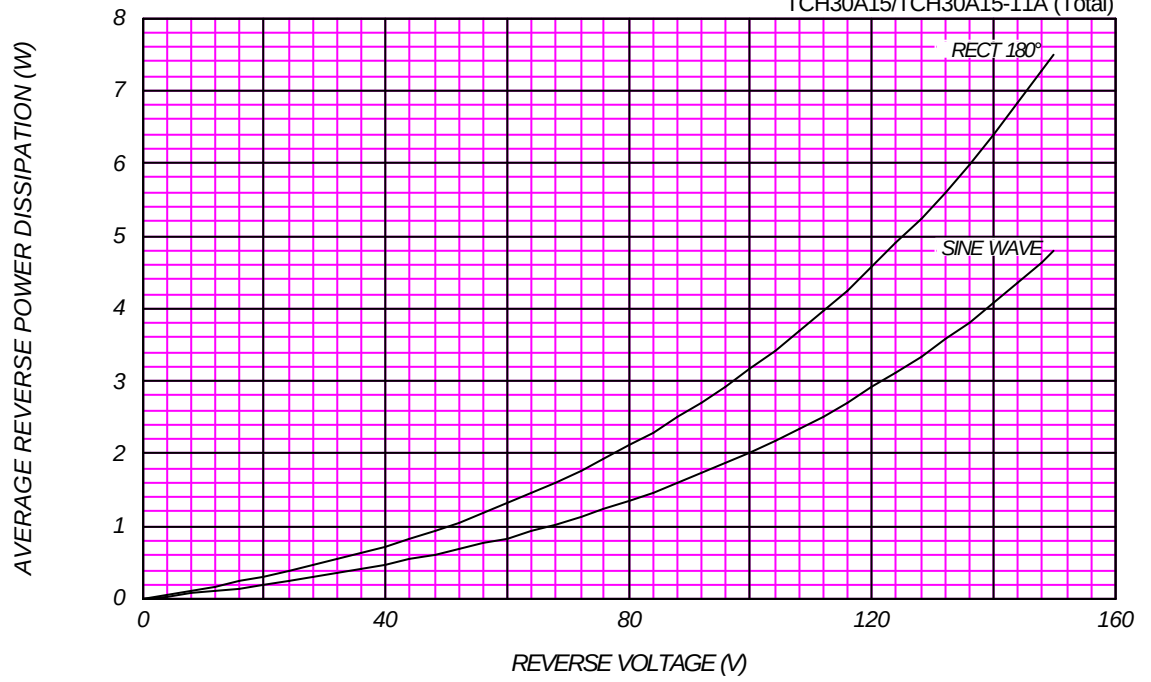
$T_j = 150\text{ }^{\circ}\text{C}$

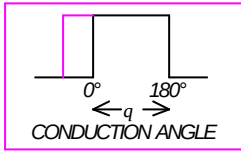
TCH30A15/TCH30A15-11A (per Arm)



AVERAGE REVERSE POWER DISSIPATION

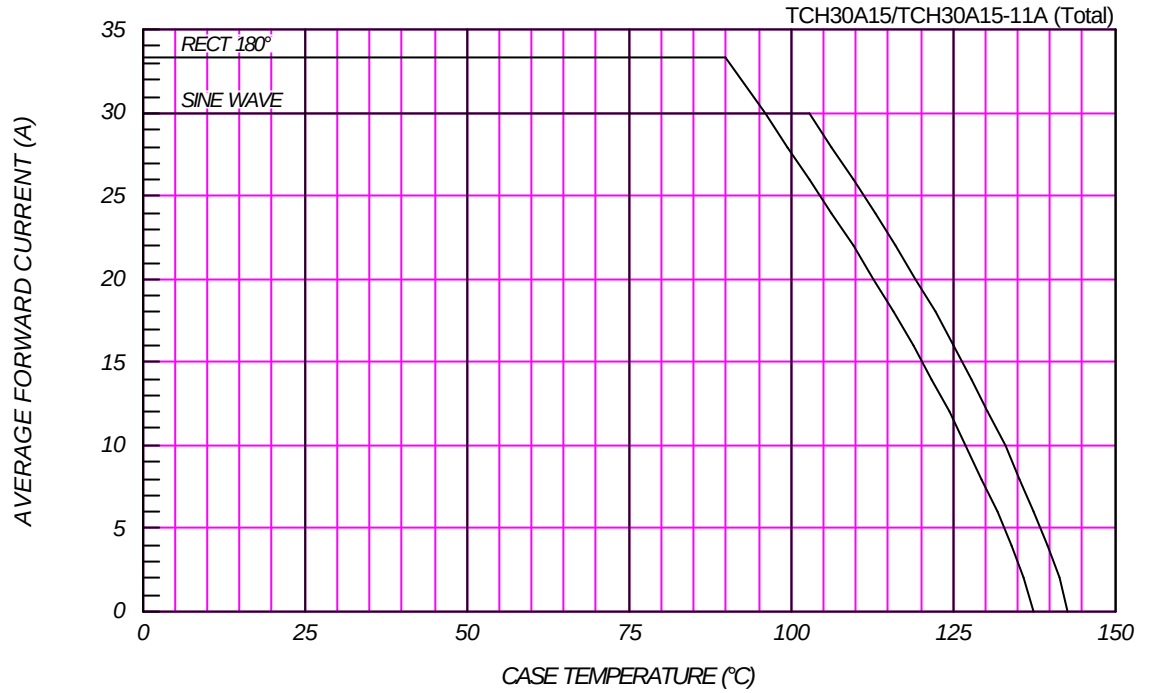
TCH30A15/TCH30A15-11A (Total)





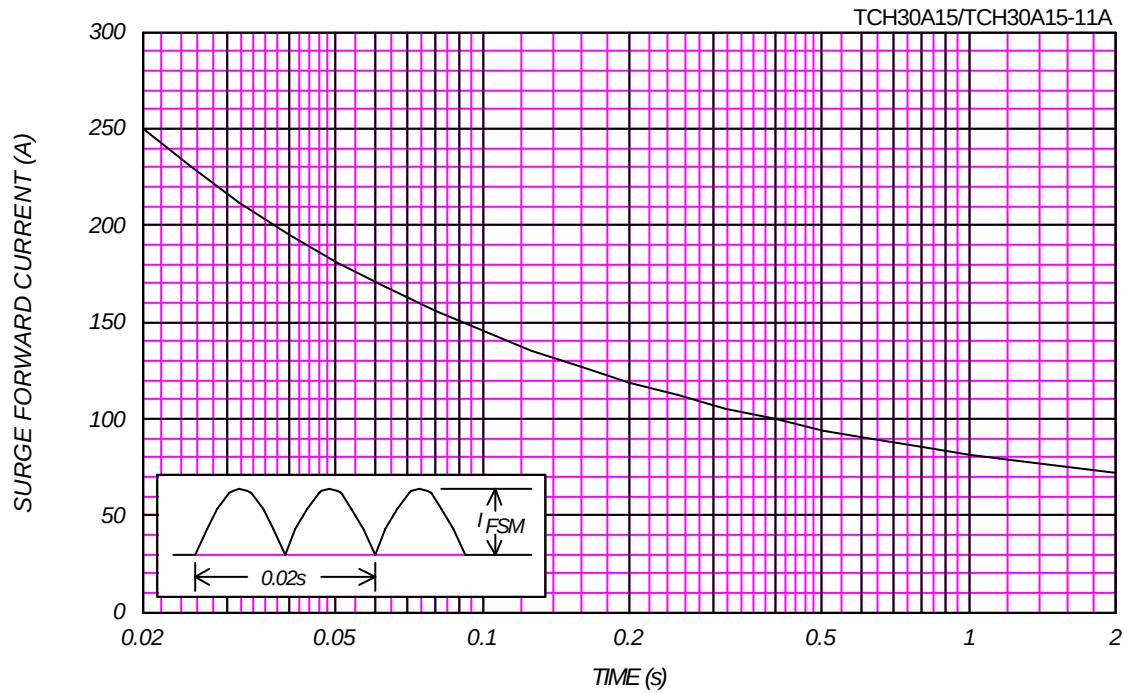
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 150V$



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

TCH30A15/TCH30A15-11A (per Arm)

