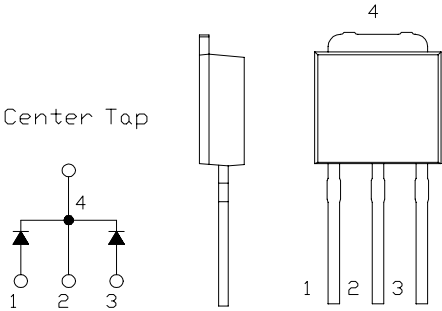


SBD Type : **ECL06B03**

OUTLINE DRAWING

FEATURES

- * TO-251AA Case
- * Dual Diodes Cathode Common
- * Extremely Low Forward Voltage drop
- * Low Power Loss,High Efficiency
- * High Surge Capability



Maximum Ratings

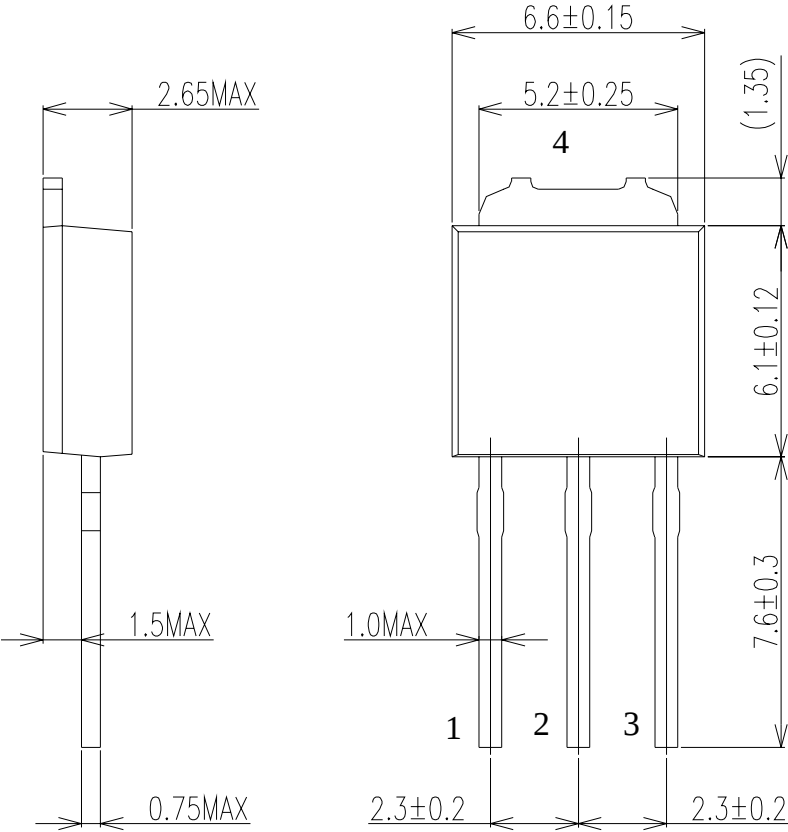
Approx Net Weight:0.35g

Rating	Symbol	ECL06B03			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	30			V
Average Rectified Output Current	I _O	6.0	Tc=70°C	50Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	6.66			A
Surge Forward Current	I _{FSM}	45	50Hz Full Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 100			°C
Storage Temperature Range	T _{stg}	- 40 to + 125			°C

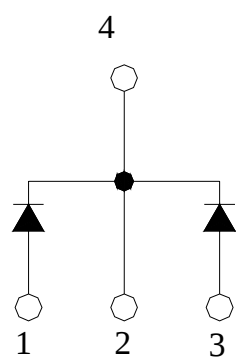
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current	I_{RM}	$T_j=25^{\circ}C,V_{RM}=V_{RRM}$ per Arm	-	-	3.0	mA
Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C,I_{FM}= 3 A$ per Arm	-	-	0.47	V
Thermal Resistance	Junction to Case	$R_{th(j-c)}$	-	-	5	$^{\circ}C/W$

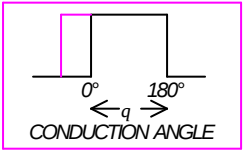
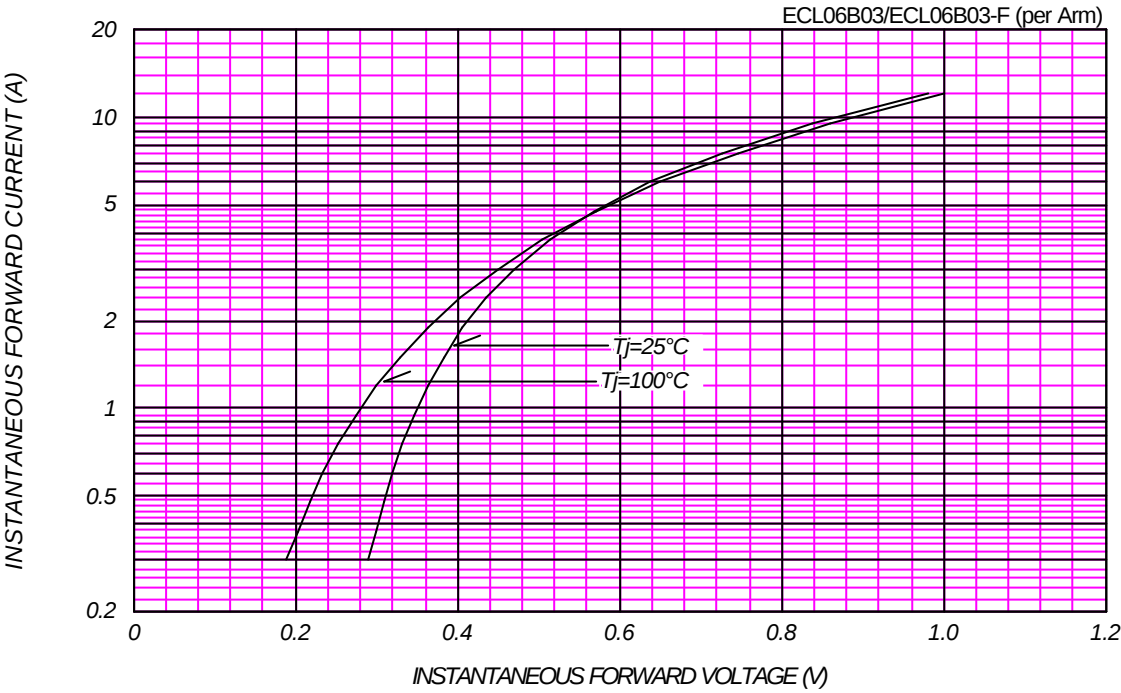
ECL06B03 OUTLINE DRAWING (Dimensions in mm)



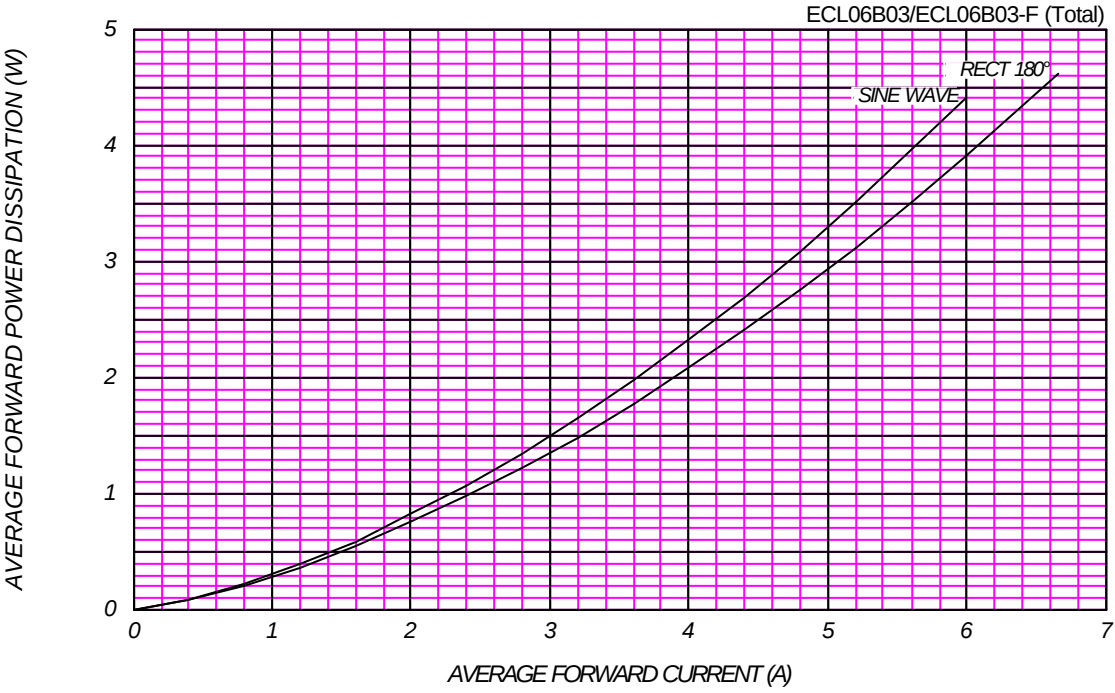
Center Tap



FORWARD CURRENT VS. VOLTAGE



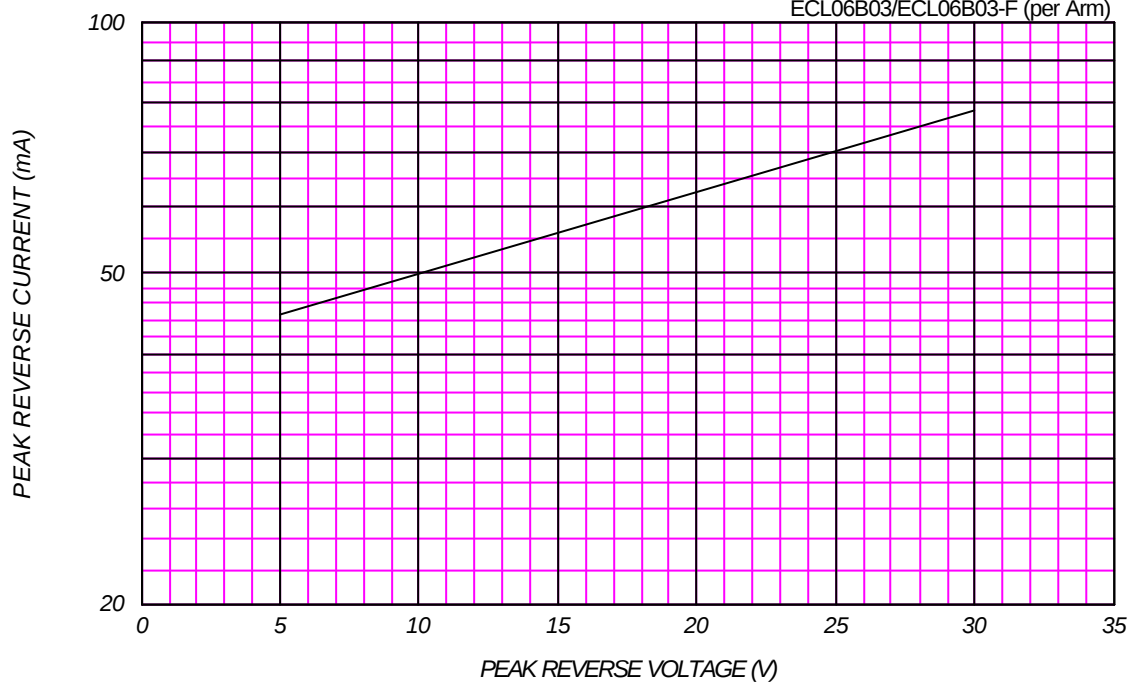
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

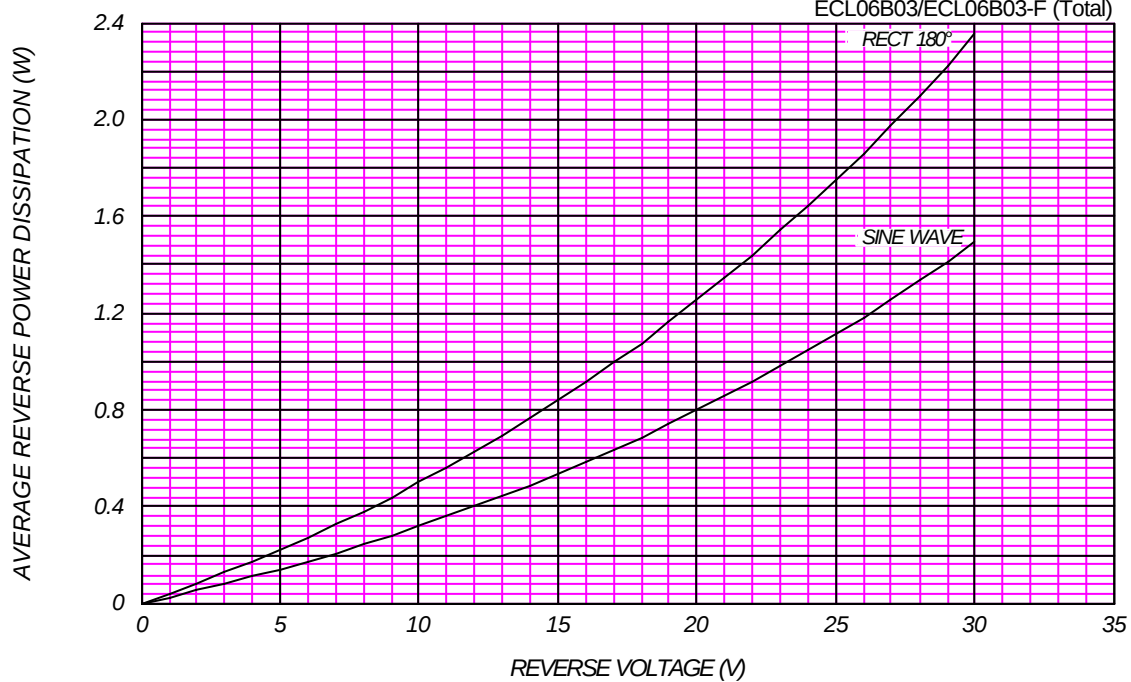
$T_j = 100\text{ }^{\circ}\text{C}$

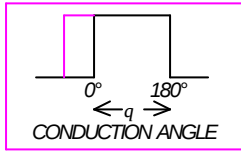
ECL06B03/ECL06B03-F (per Arm)



AVERAGE REVERSE POWER DISSIPATION

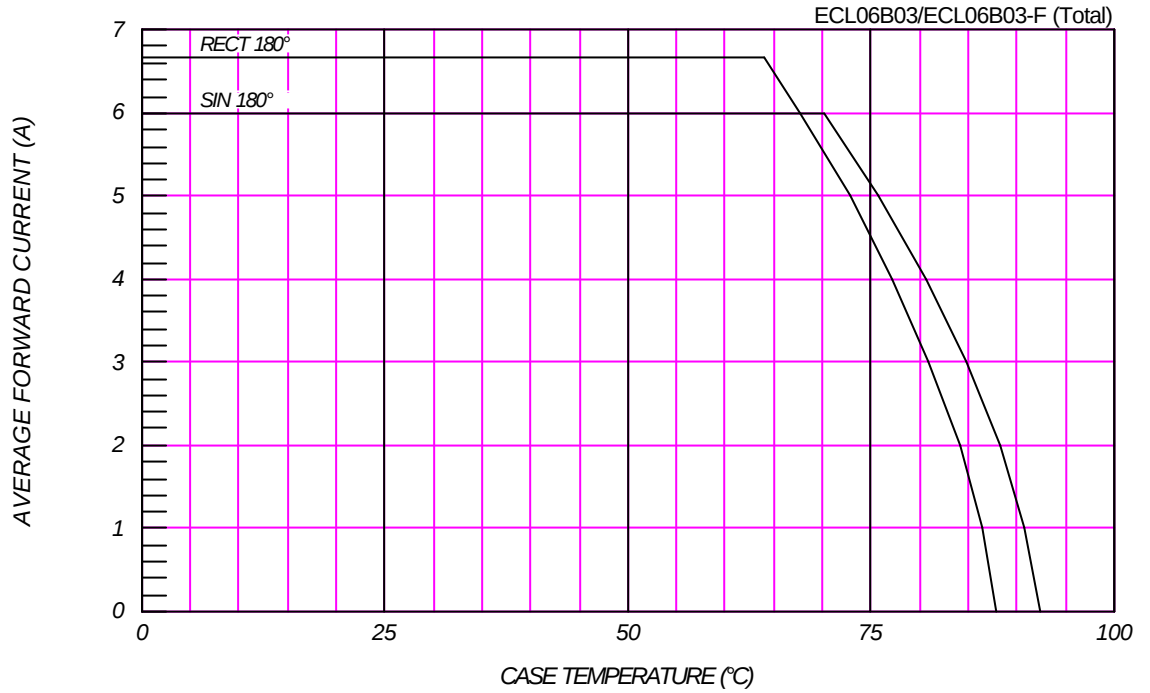
ECL06B03/ECL06B03-F (Total)





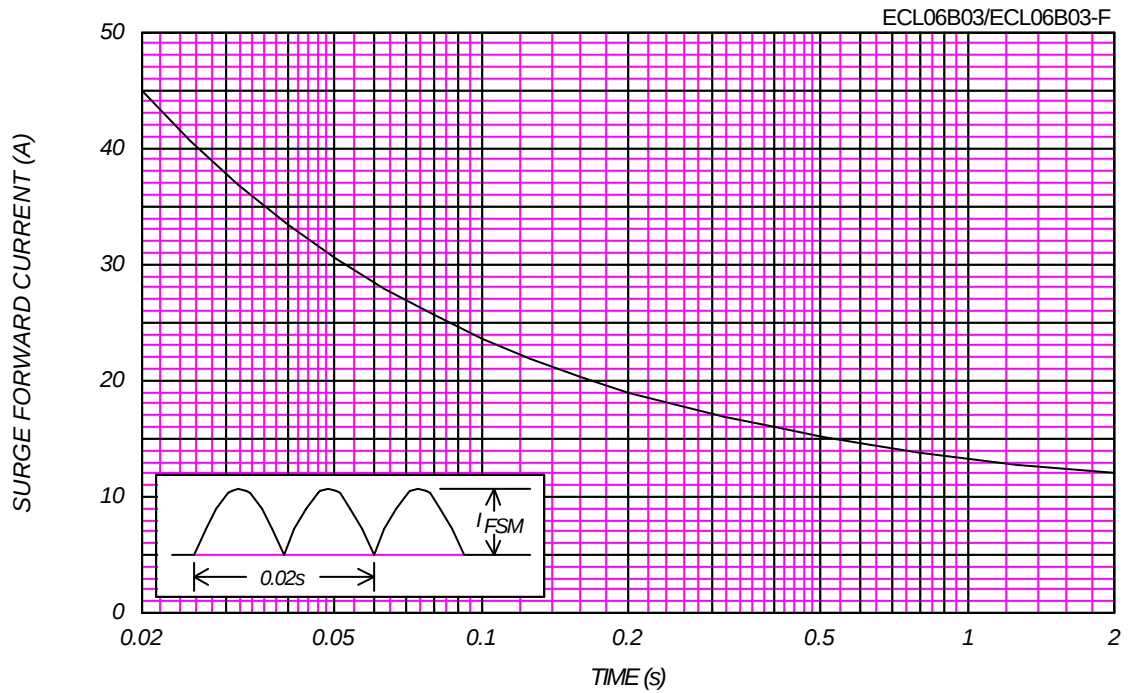
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 30$



SURGE CURRENT RATINGS

$f=50\text{Hz}$, 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

ECL06B03/ECL06B03-F (per Arm)

