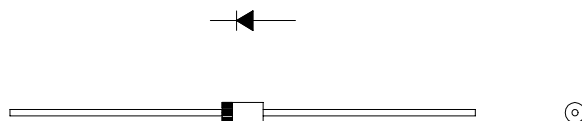


SBD Type :11DQ03L

FEATURES

- * Miniature Size
- * Low Forward Voltage drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 30 Volts thru 100 Volts Types Available
- * 52mm Inside Tape Spacing Package Available

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:0.32g

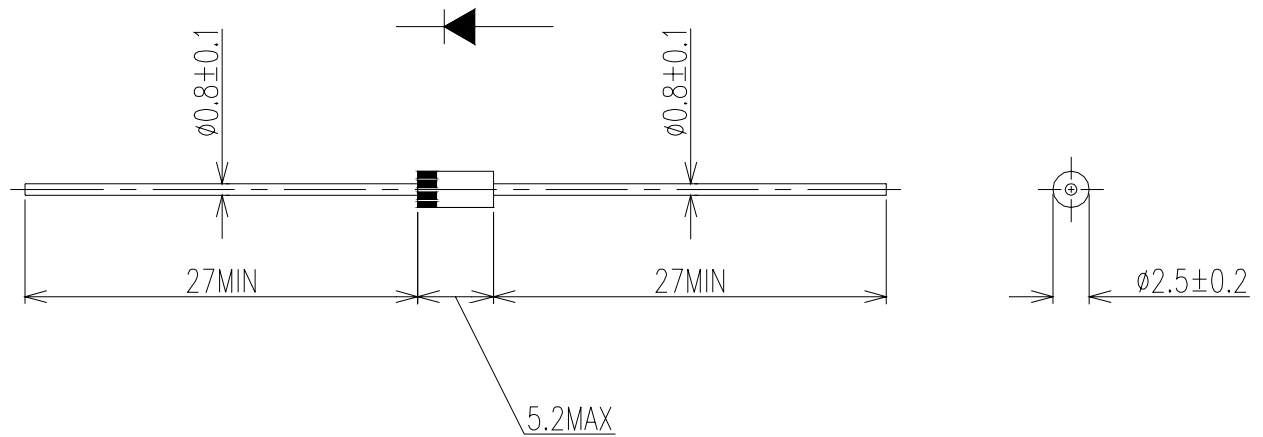
Rating		Symbol	11DQ03L			Unit
Repetitive Peak Reverse Voltage		V _{RRM}	40			V
Average Rectified Output Current	Without Fin or P.C.Board	I _O	1.0	Ta=42°C,V _R =30V*	50Hz Half Sine Wave Resistive Load	A
	P.C.Board mounted		1.0	Ta=74°C,V _R =30V*		
RMS Forward Current		I _{F(RMS)}	1.57			A
Surge Forward Current		I _{FSM}	40	50Hz Half 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

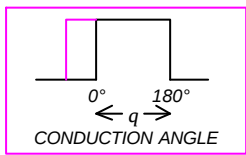
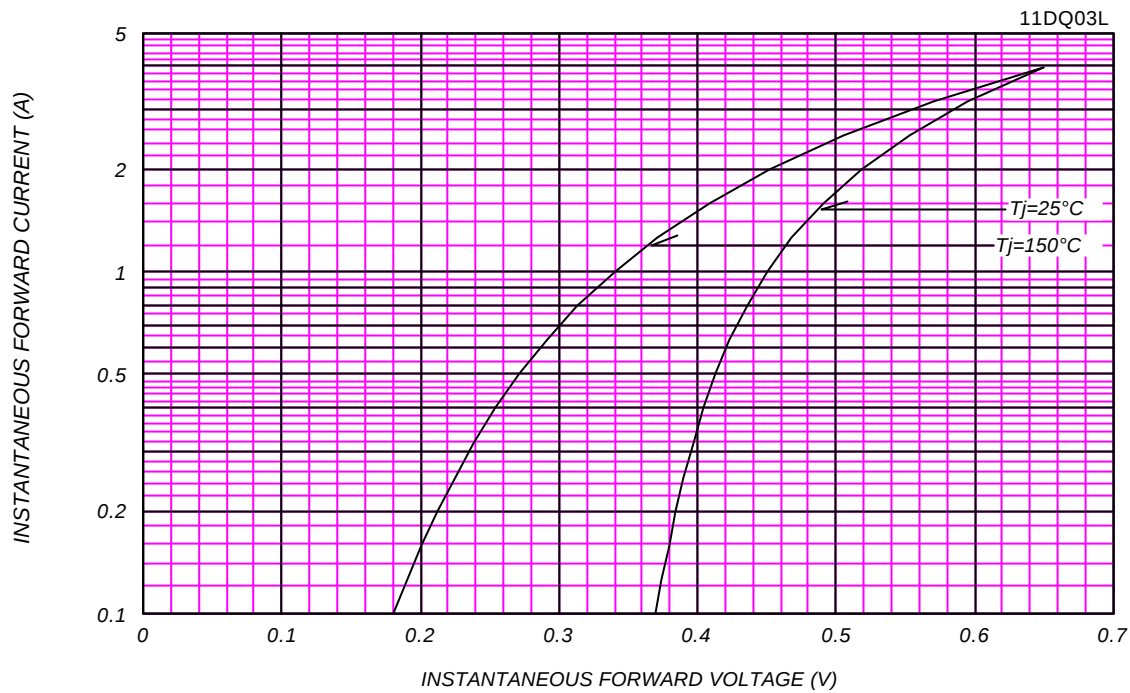
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^{\circ}\text{C}, V_{RM} = V_{RRM}$	-	-	1	mA
Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}\text{C}, I_{FM} = 1.0\text{A}$	-	-	0.45	V
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	Without Fin or P.C.Board	-	-	130	$^{\circ}\text{C/W}$
		P.C.Board mounted			81	

*:Print Lands=5x5mm,Both Sides

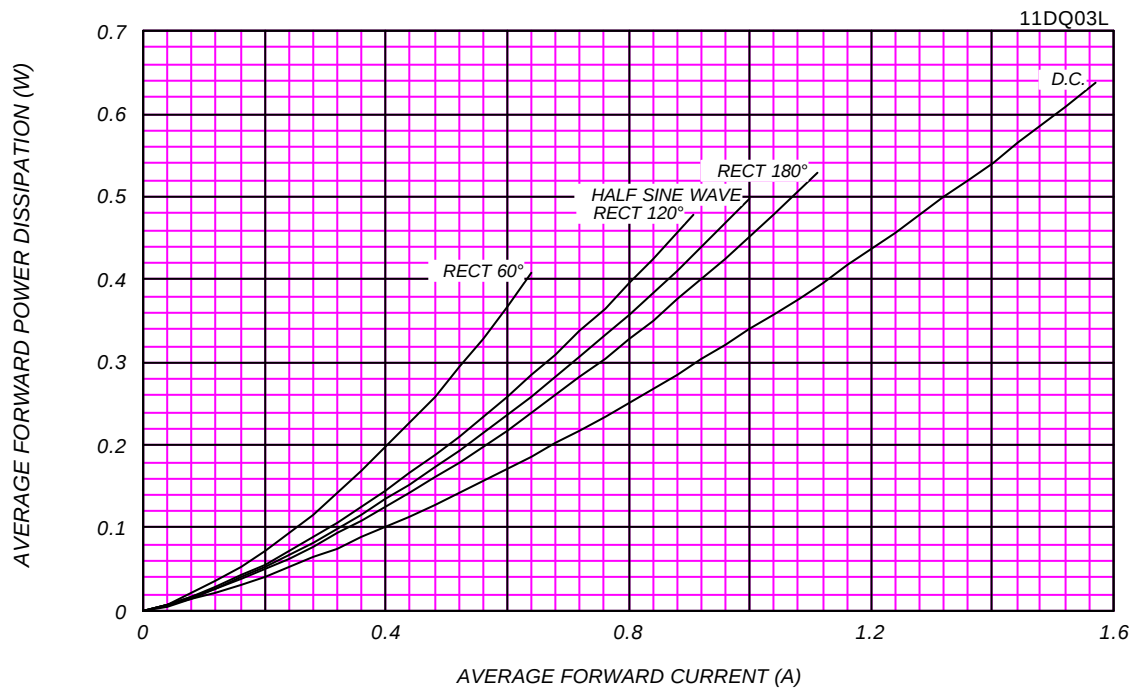
11DQ03L OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



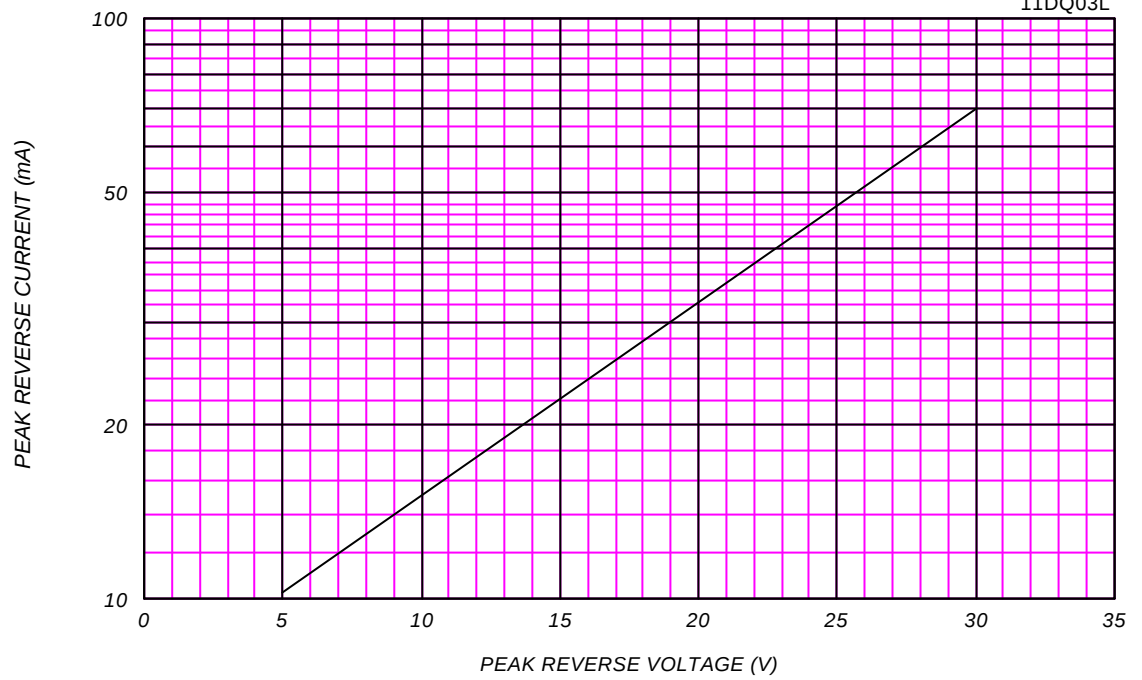
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

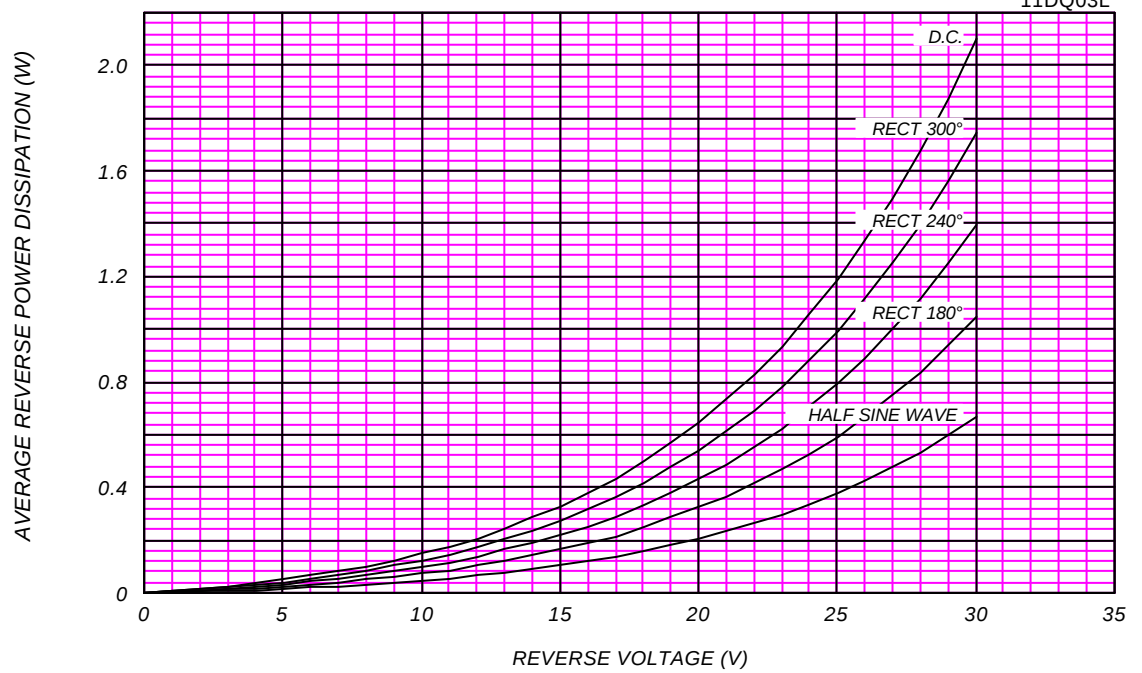
$T_j = 150^\circ\text{C}$

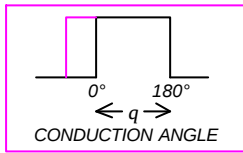
11DQ03L



AVERAGE REVERSE POWER DISSIPATION

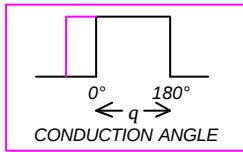
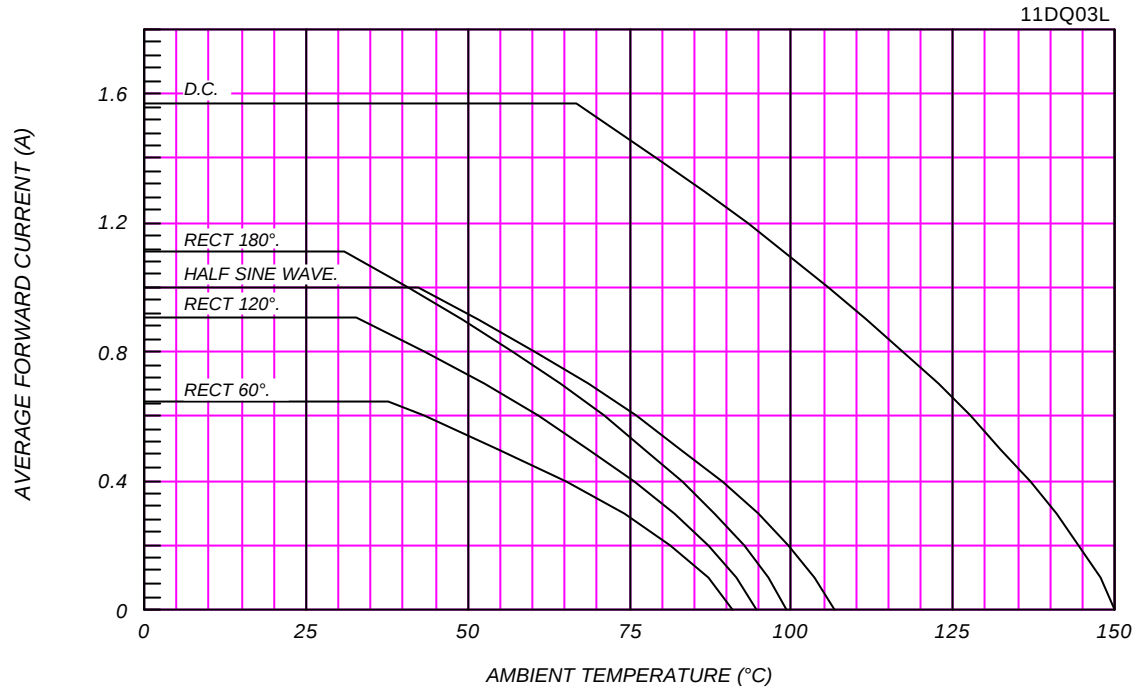
11DQ03L





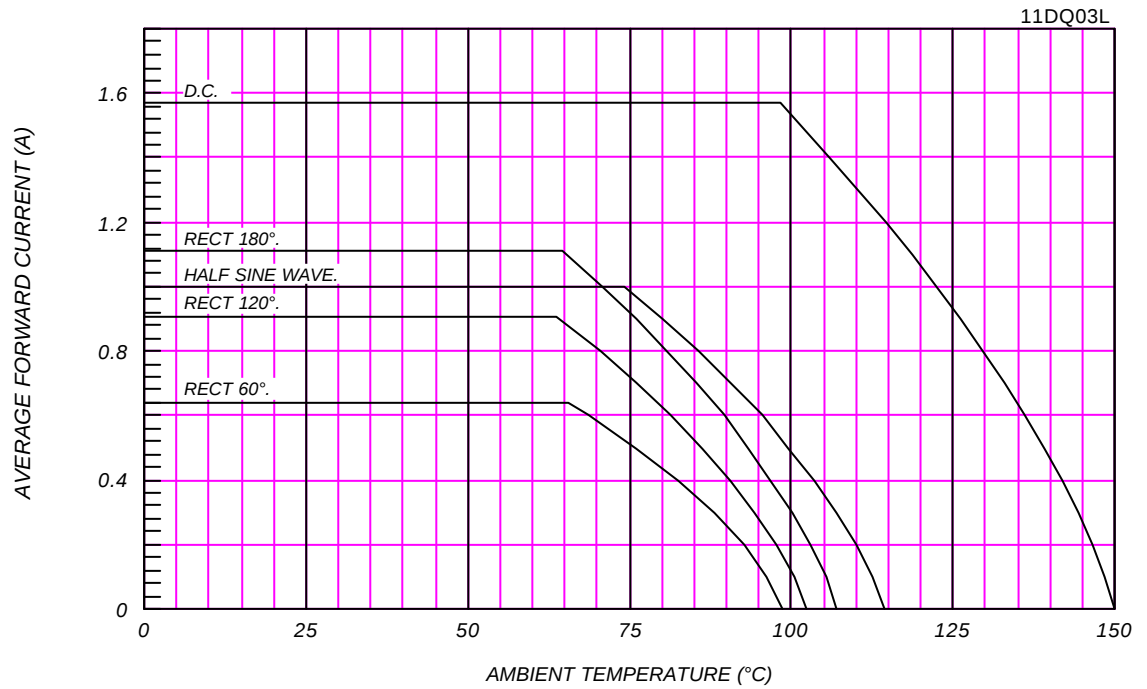
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board, $V_{RM} = 30V$



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

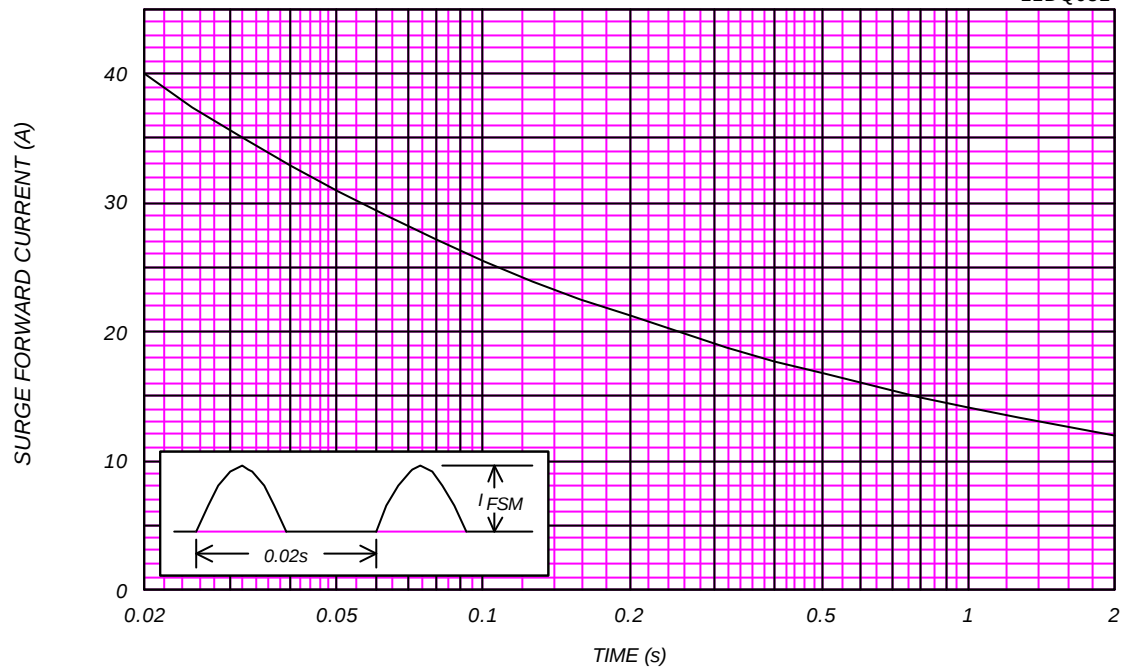
P.C. Board mounted (L=8mm, Print Land=10×10mm), $V_{RM} = 30V$



SURGE CURRENT RATINGS

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

11DQ03L



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

T_j=25°C,V_m=20mV_{RMS},f=100kHz,Typical Value

11DQ03L

