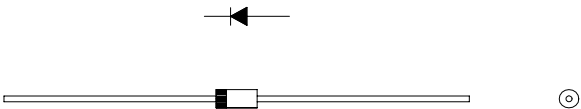


SBD Type :11DQ09

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

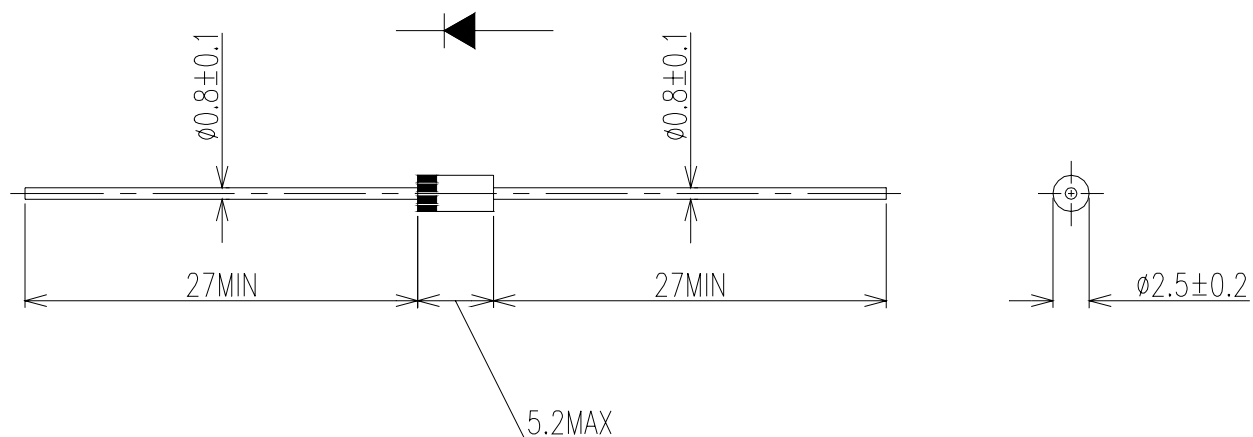
Rating		Symbol	11DQ09			Unit
Repetitive Peak Reverse Voltage		V _{RRM}	90			V
Average Rectified Output Current	Without Fin or P.C.Board	I _O	1.0	Ta=38°C*	50Hz Half Sine Wave Resistive Load	A
	P.C.Board mounted		1.0	Ta=80°C*		
RMS Forward Current		I _{F(RMS)}	1.57			A
Surge Forward Current		I _{FSM}	40	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

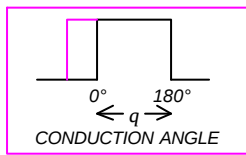
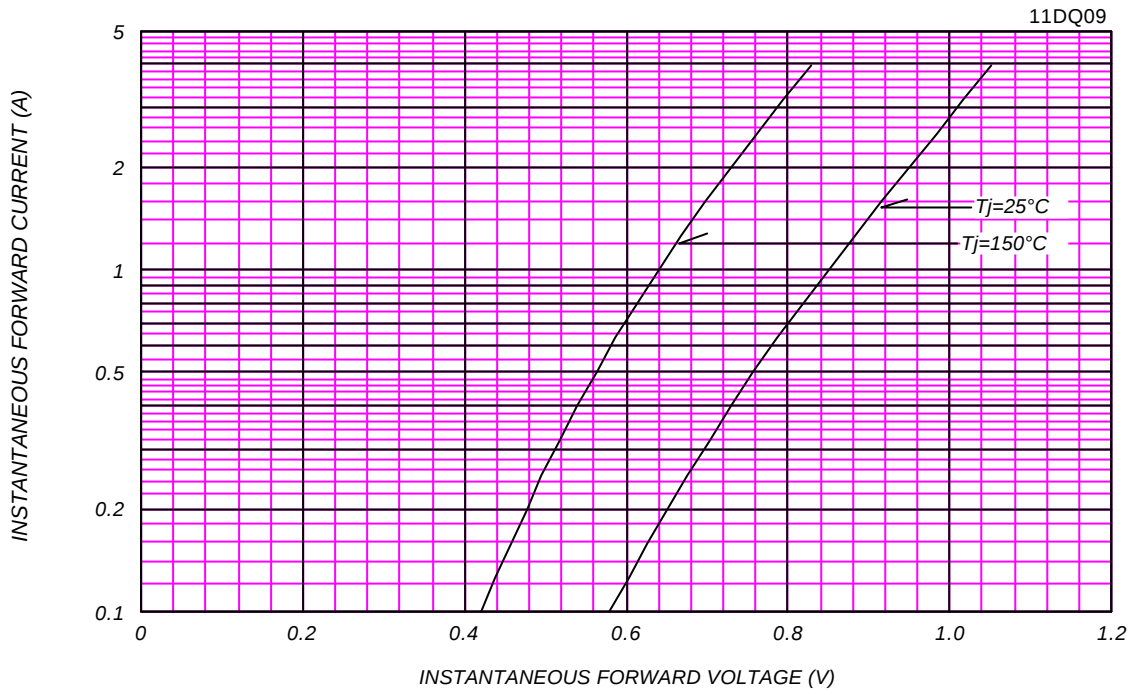
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I _{RM}	T _j = 25℃, V _{RM} = V _{RRM}	-	-	0.5	mA
Peak Forward Voltage	V _{FM}	T _j = 25℃, I _{FM} = 1.0A	-	-	0.85	V
Thermal Resistance (Junction to Ambient)	R _{th(j-a)}	Without Fin or P.C.Board	-	-	130	℃/W
		P.C.Board mounted			81	

*:Print Lands=5x5mm,Both Sides

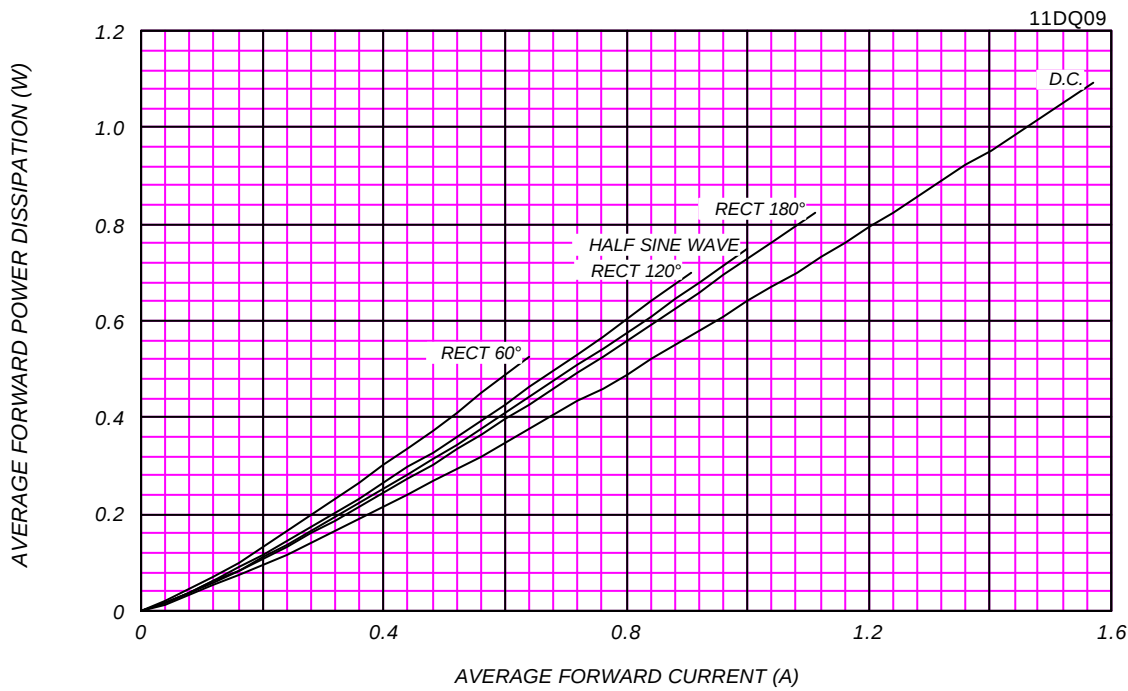
11DQ09 OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



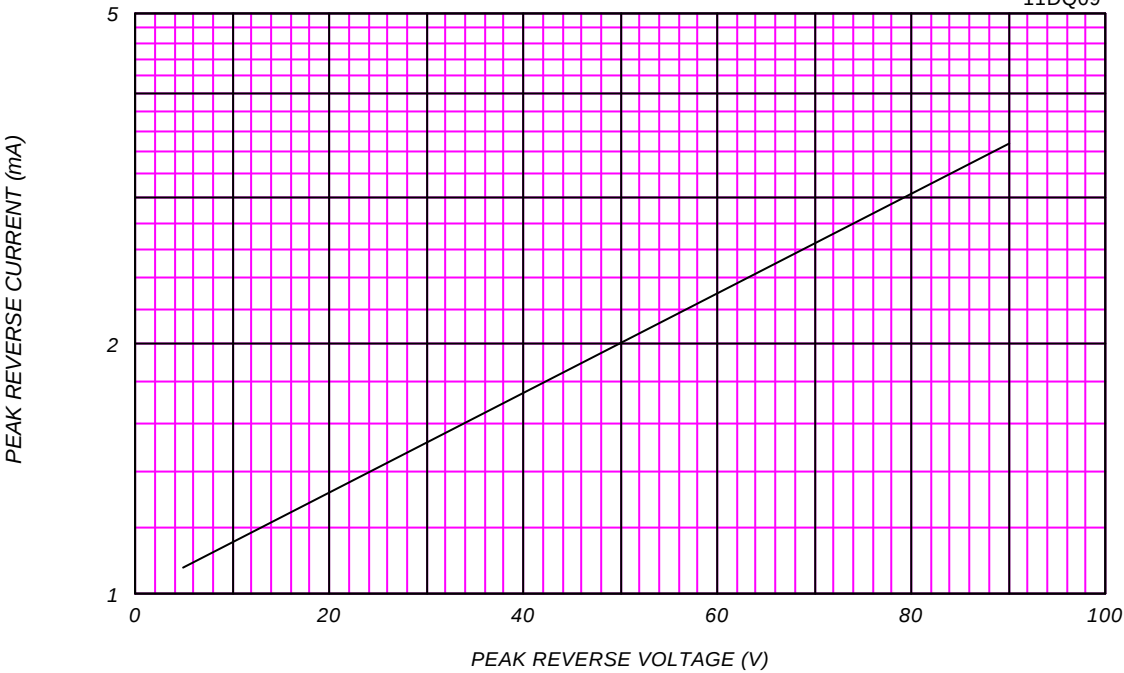
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

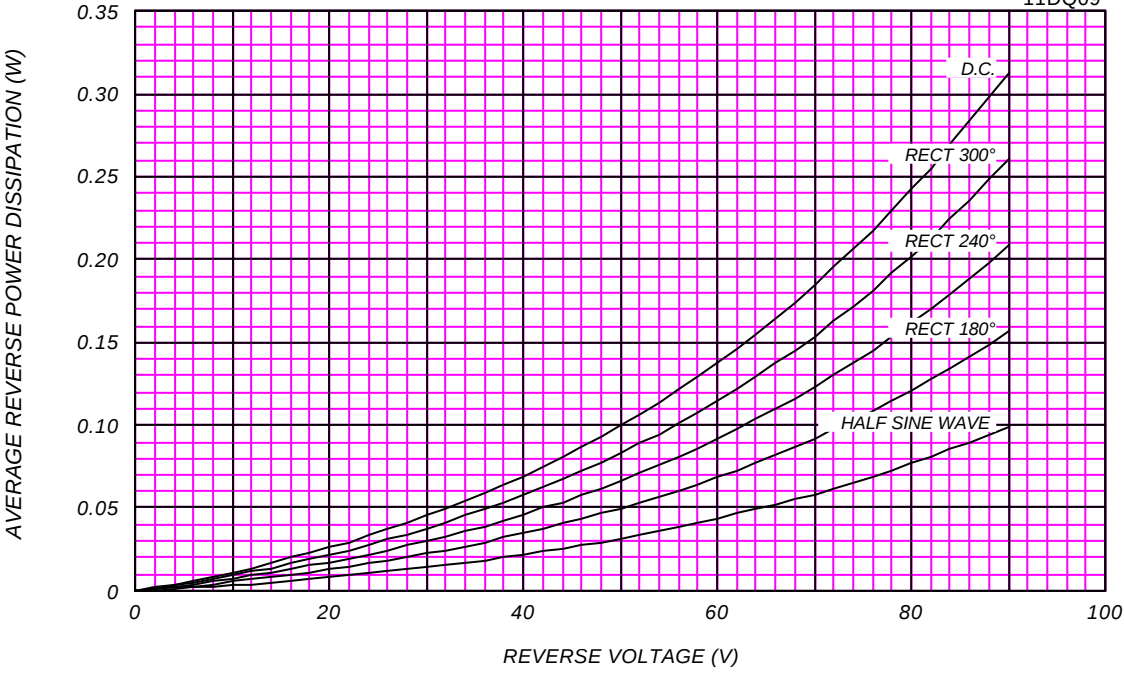
T_j= 150 °C

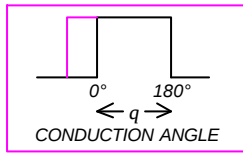
11DQ09



AVERAGE REVERSE POWER DISSIPATION

11DQ09

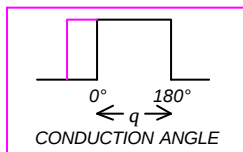
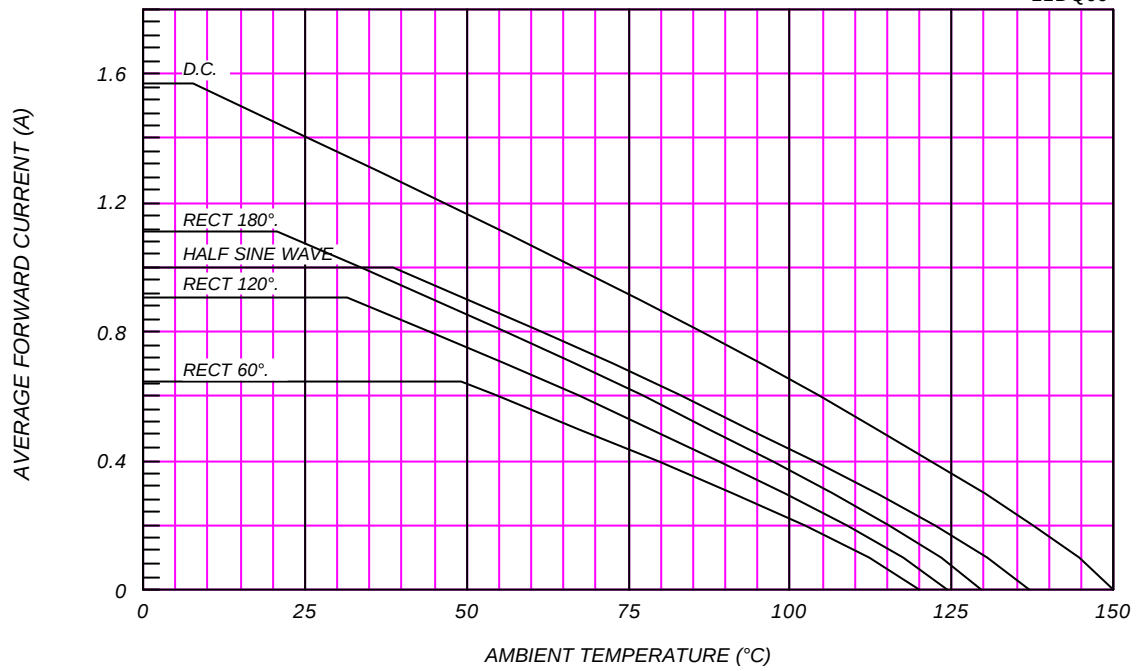




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board, $V_{RM}=90V$

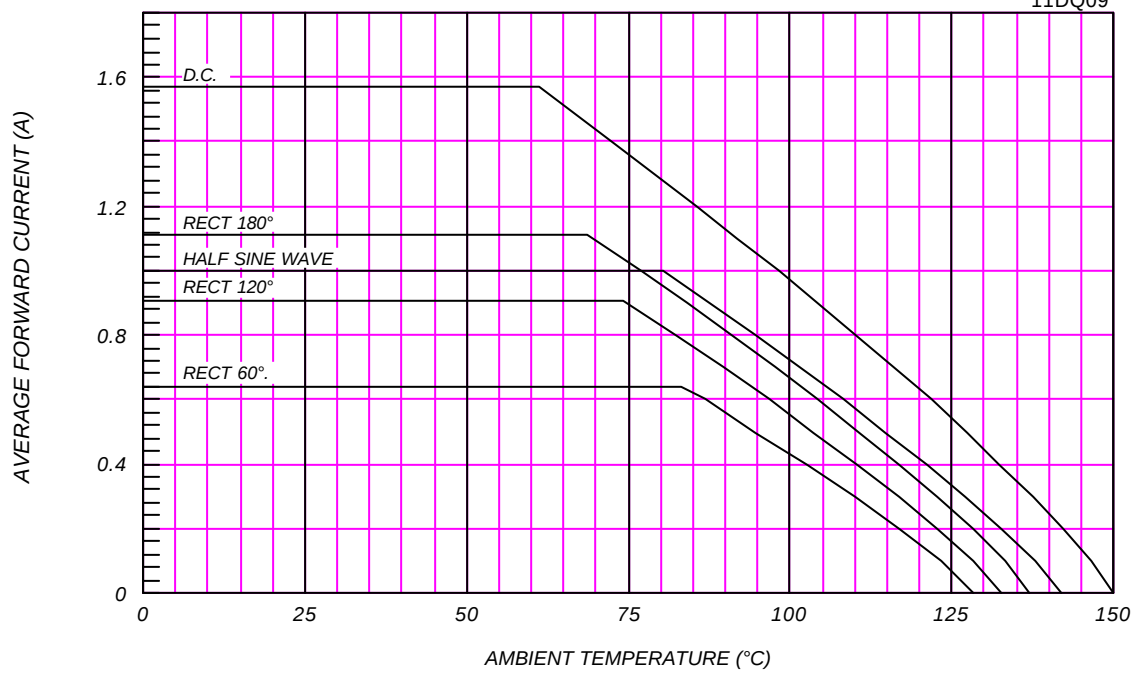
11DQ09



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=8mm, Print Land=10×10mm), $V_{RM}=90V$

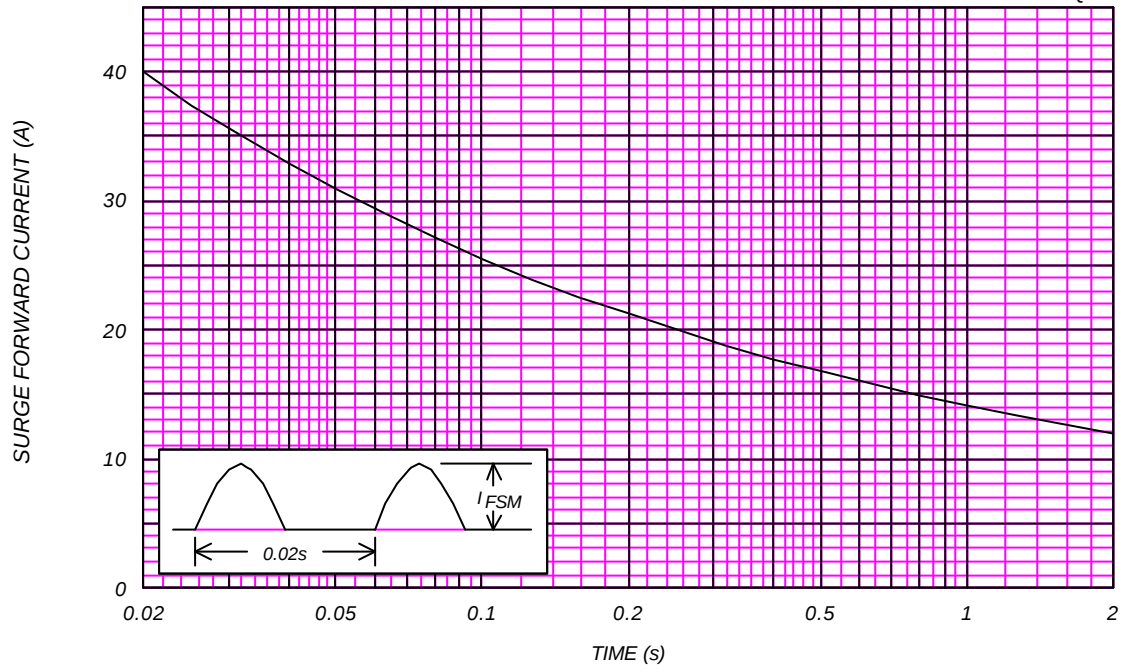
11DQ09



SURGE CURRENT RATINGS

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

11DQ09



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

11DQ09

