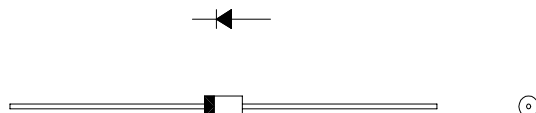


SBD Type :11EQ09

FEATURES

- * Miniature Size
- * Low Forward Voltage drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 40 Volts thru 100 Volts Types Available
- * 26mm&52mm Inside Tape Spacing Package Available

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:0.21g

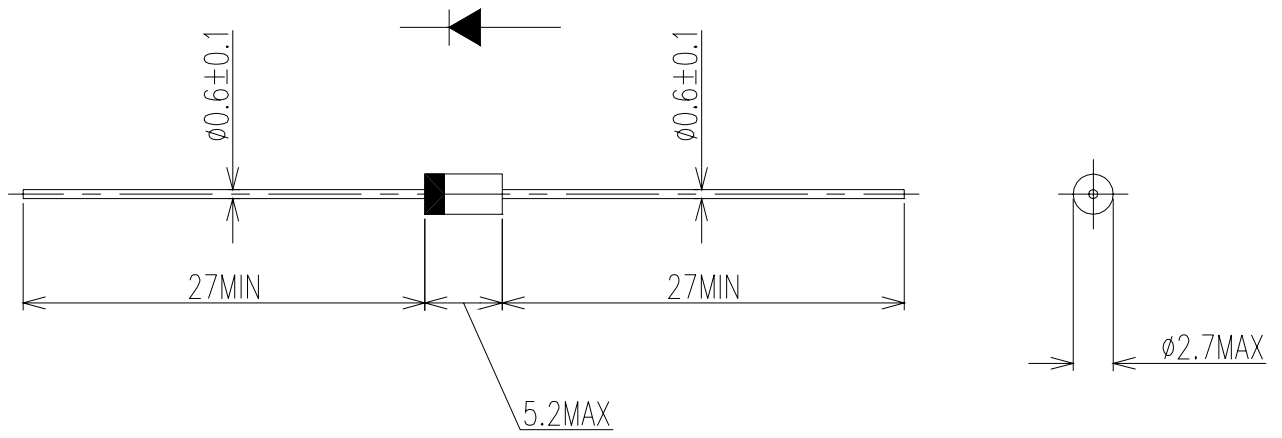
Rating		Symbol	11EQ09			Unit
Repetitive Peak Reverse Voltage		V_{RRM}	90			V
Average Rectified Output Current	Without Fin or P.C.Board	I_O	1.0	$T_a=30^{\circ}C^*$	50Hz Half Sine Wave Resistive Load	A
	P.C.Board mounted		1.0	$T_a=60^{\circ}C^*$		
RMS Forward Current		$I_{F(RMS)}$	1.57			A
Surge Forward Current		I_{FSM}	40	50Hz Half Sine Wave, 1cycle, Non-repetitive		A
Operating Junction Temperature Range		T_{jw}	- 40 to + 150			$^{\circ}C$
Storage Temperature Range		T_{stg}	- 40 to + 150			$^{\circ}C$

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^{\circ}C, V_{RM} = V_{RRM}$	-	-	0.5	mA
Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}C, I_{FM} = 1.0A$	-	-	0.85	V
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	Without Fin or P.C.Board	-	-	140	$^{\circ}C/W$
		P.C.Board mounted	-	-	105	

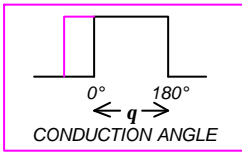
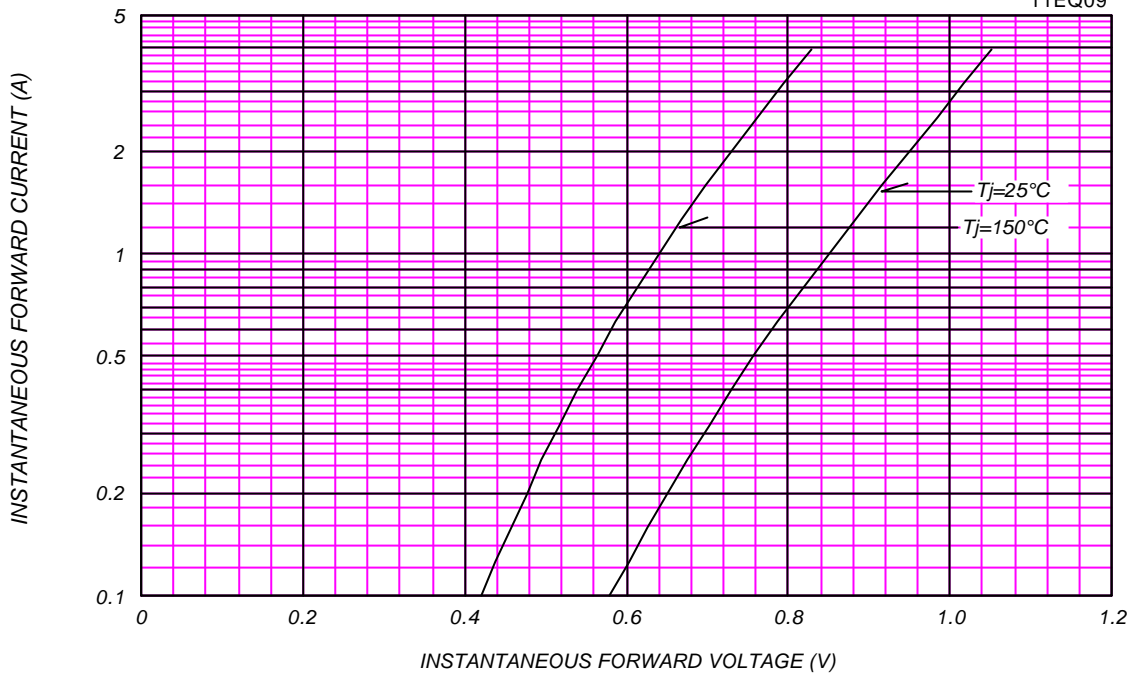
*:Print Lands=5x5mm,Both Sides

11EQ09 OUTLINE DRAWING (Dimensions in mm)



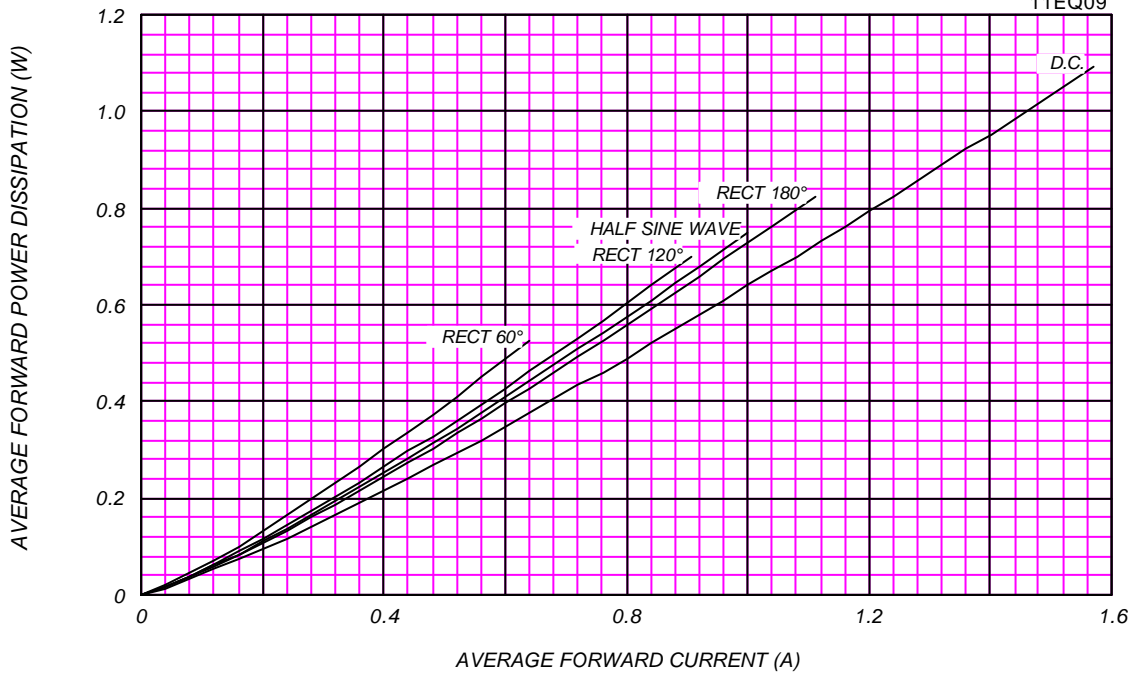
FORWARD CURRENT VS. VOLTAGE

11EQ09



AVERAGE FORWARD POWER DISSIPATION

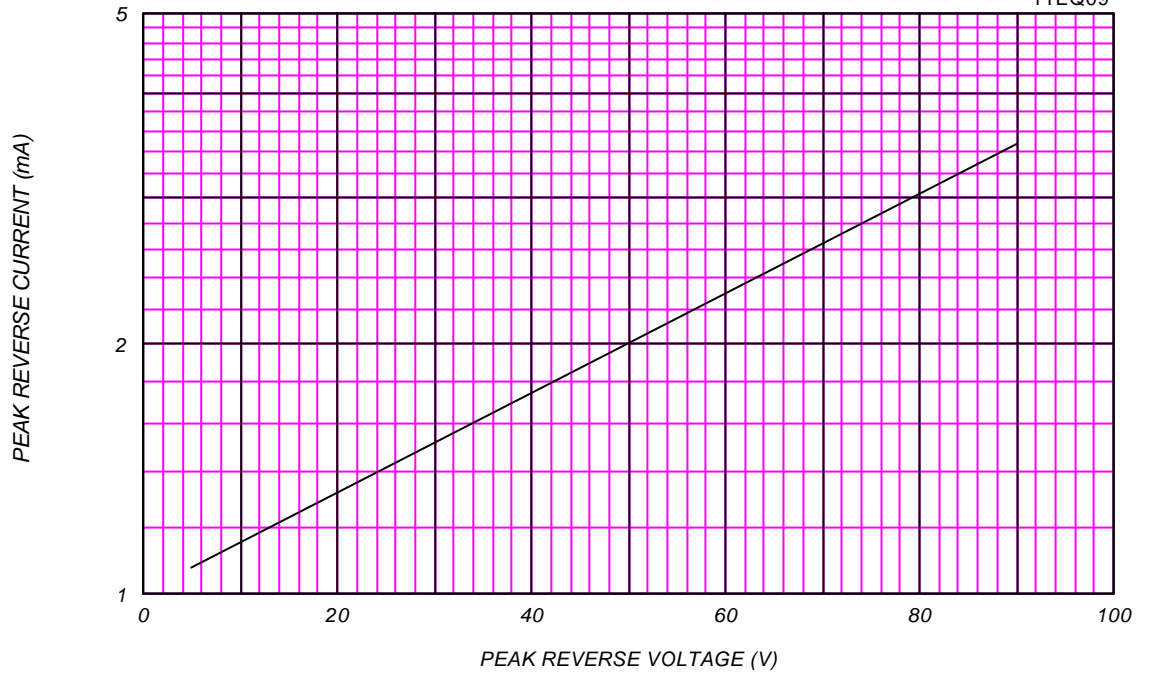
11EQ09



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

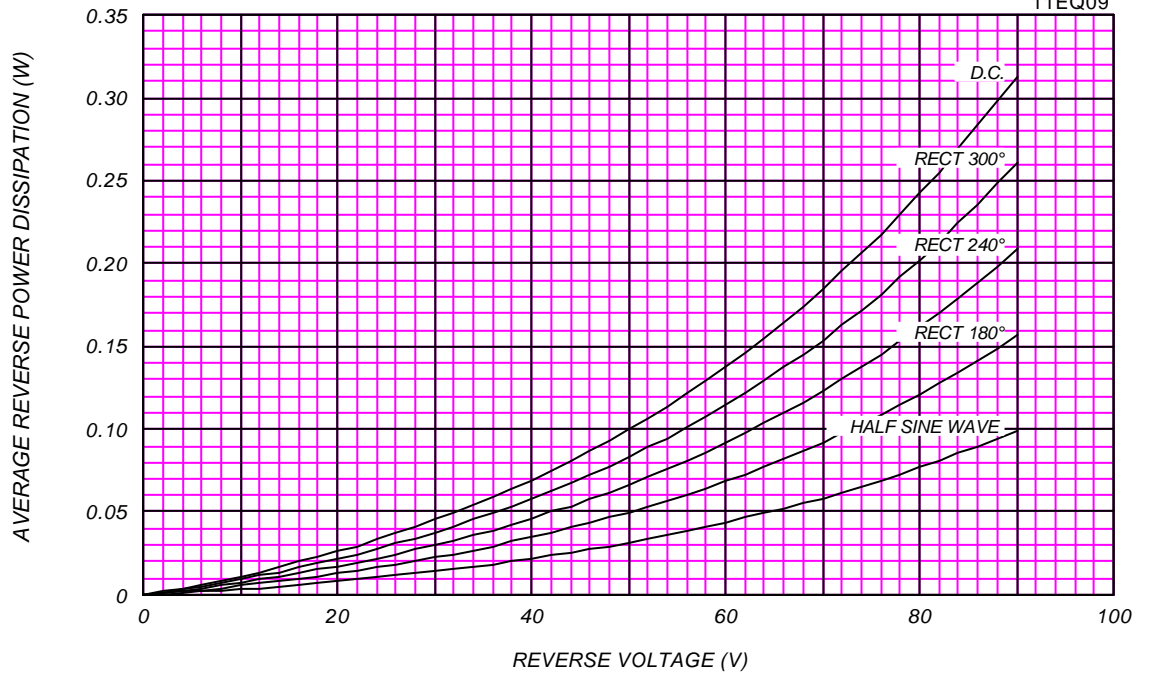
T_j = 150 °C

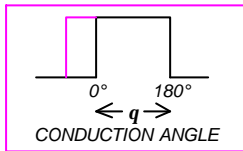
11EQ09



AVERAGE REVERSE POWER DISSIPATION

11EQ09

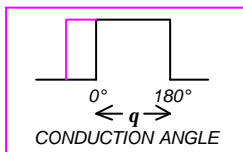
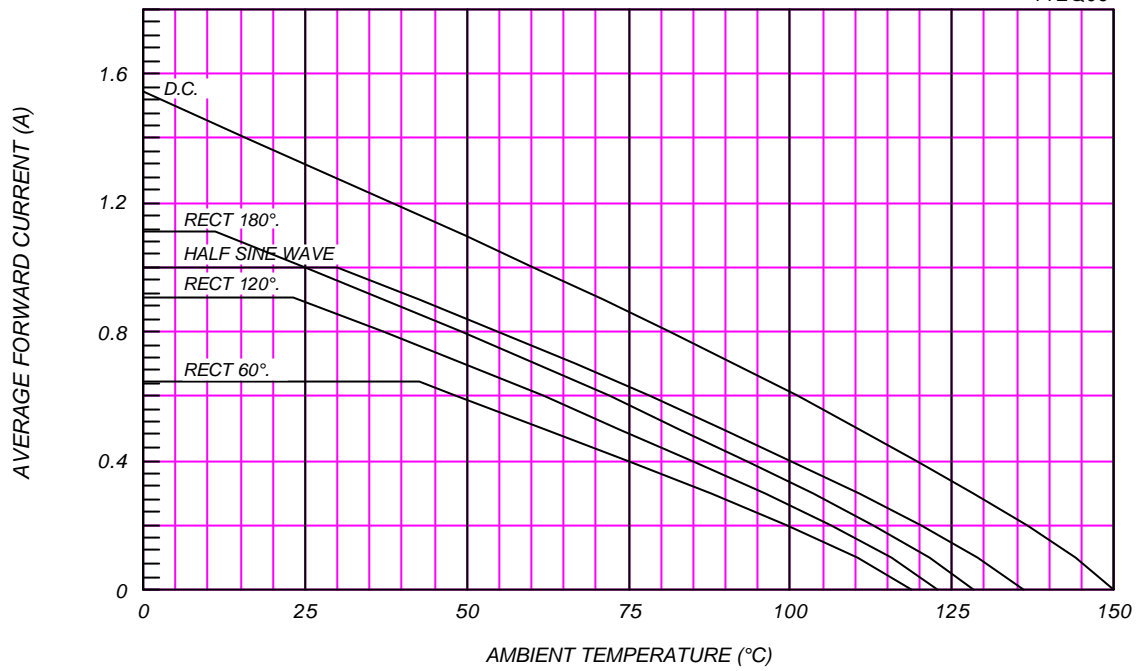




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

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

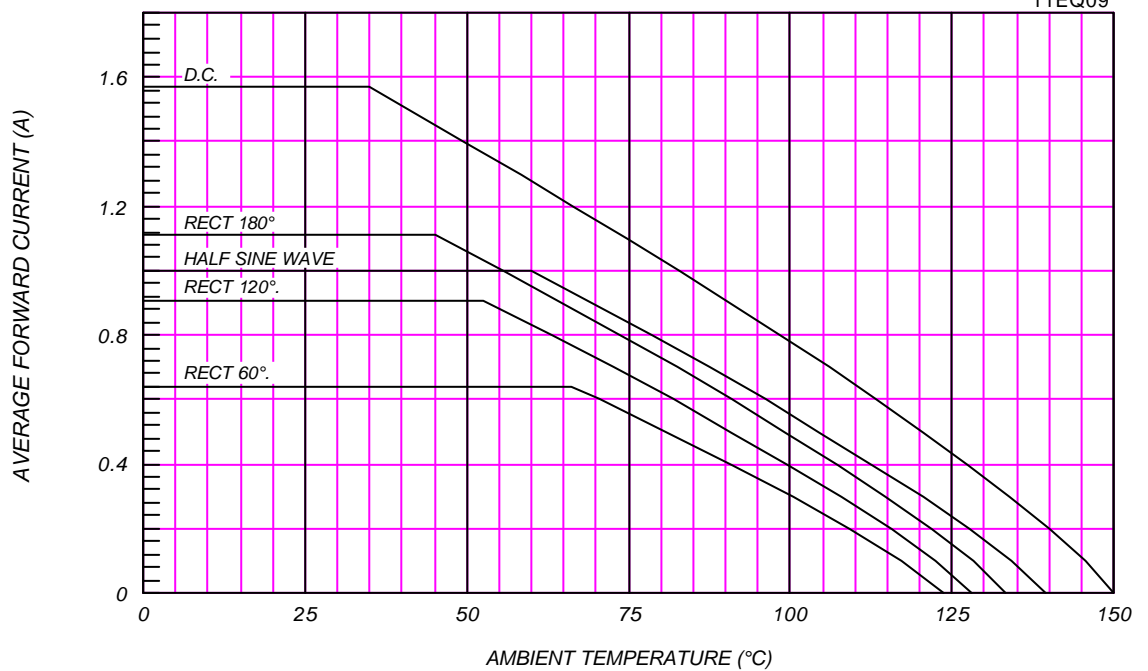
11EQ09



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=3mm, Print Land=10x10mm), $V_{RM}=90V$

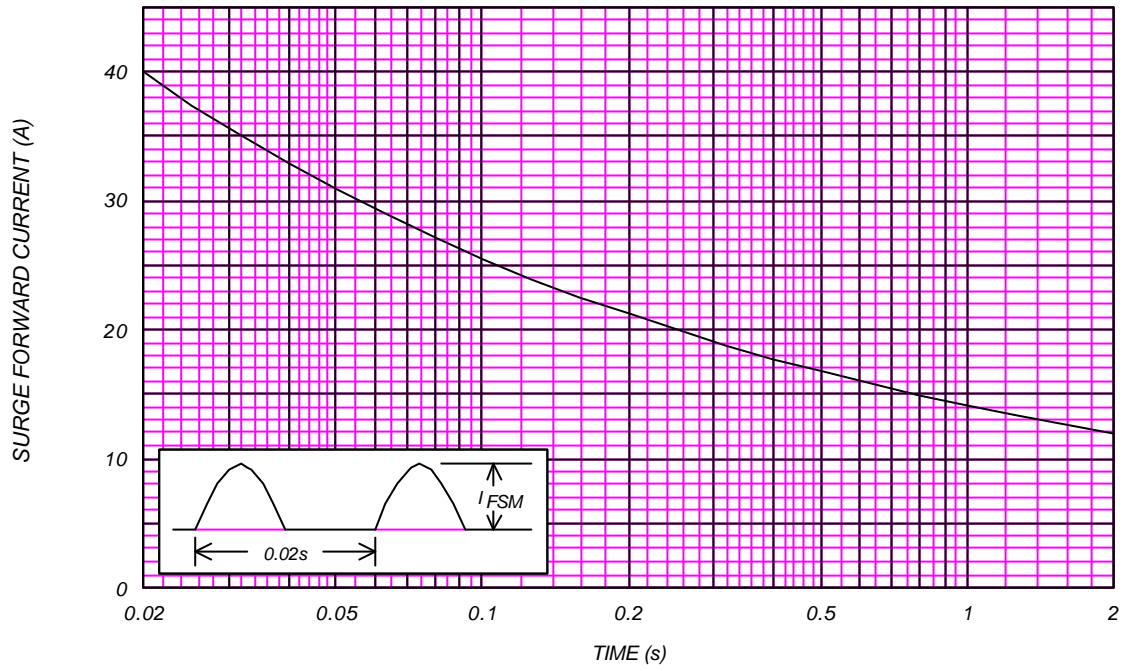
11EQ09



SURGE CURRENT RATINGS

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

11EQ09



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

11EQ09

