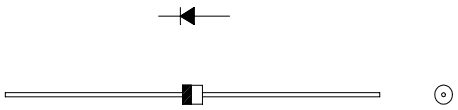
Nihon Inter Electronics Corporation

SBD Type :11EQS10

OUTLINE DRAWING



FEATURES

* Miniature Size
* Low Forward Voltage Drop
* High Surge Capability
* 30volts trough 100volts Types Available
* 26mm and 52mm Inside Tape Spacing Package Available

Maximum Ratings

Approx Net Weight:0.17g

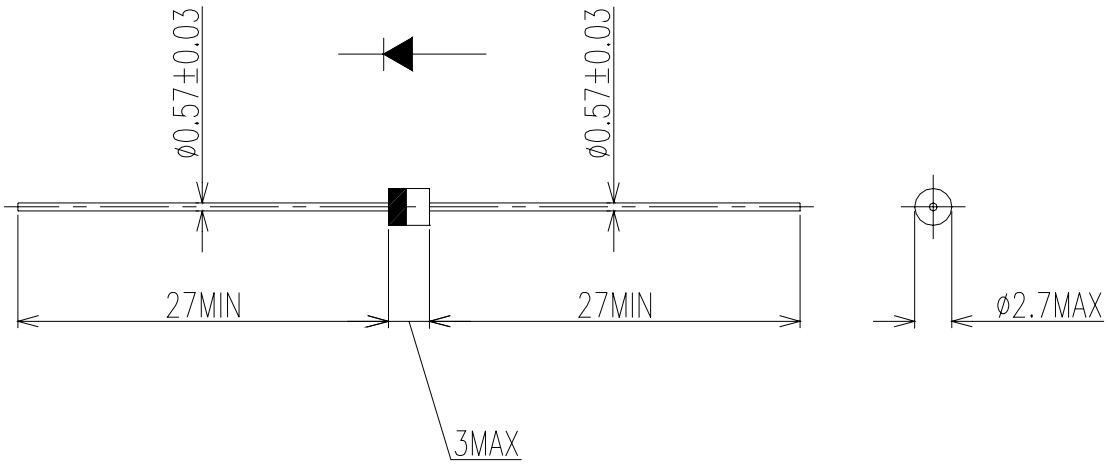
Rating		Symbol	11EQS10			Unit
Repetitive Peak Reverse Voltage		V_{RRM}	100			V
Average Rectified Output Current	Without Fin or P.C.Board	I_O	1.0	Ta=26℃	Half Sine Wave Resistive Load	A
	P.C.Board Mounted *		1.0	Ta=53℃		
RMS Forward Current		$I_{F(RMS)}$	1.57			A
Surge Forward Current		I_{FSM}	40	Half Sine Wave,1cycle,Non-repetitive		A
Operating JunctionTemperature Range		Tjw	- 40 to + 150			℃
Storage Temperature Range		Tstg	- 40 to + 150			℃

Electrical • Thermal Characteristics

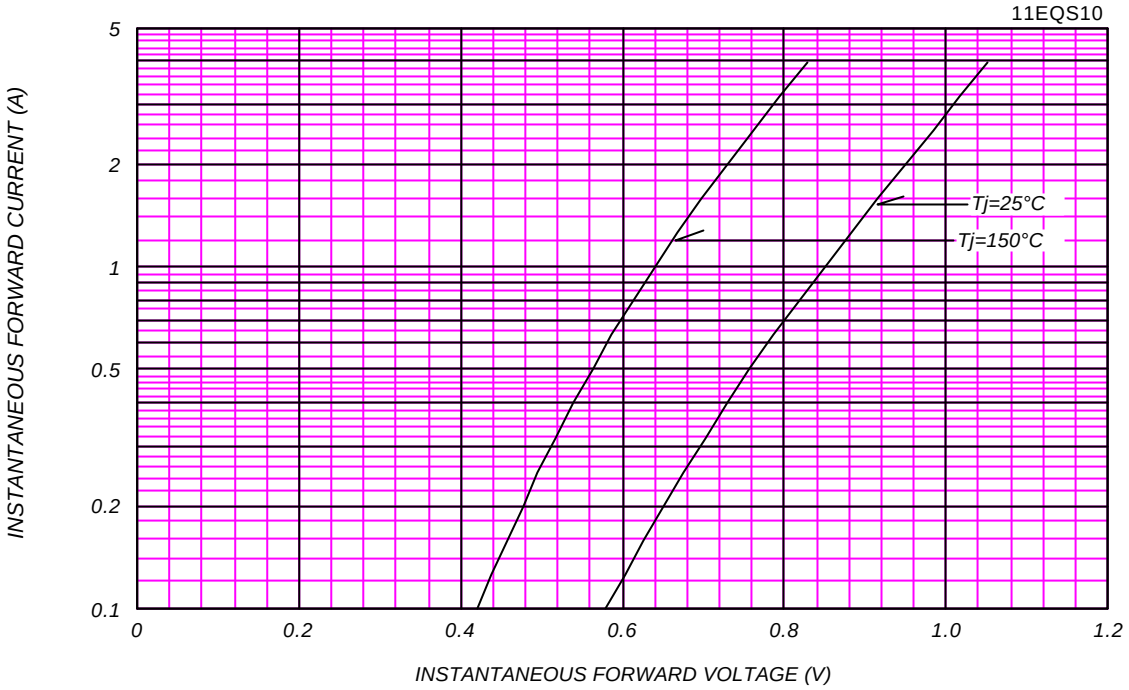
Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current	I_{RM}	Tj= 25℃, V_{RM}= V_{RRM}	-	-	0.5	mA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 1 A	-	-	0.85	V
Thermal Resistance(Junction to Ambient)	Rth(j-a)	Without Fin or P.C.Board	-	-	140	℃/W
		P.C.Board mounted *			110	

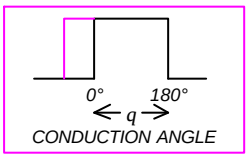
* :Print Lands = 5x5 mm,Both Sides

11EQS10 OUTLINE DRAWING (Dimensions in mm)

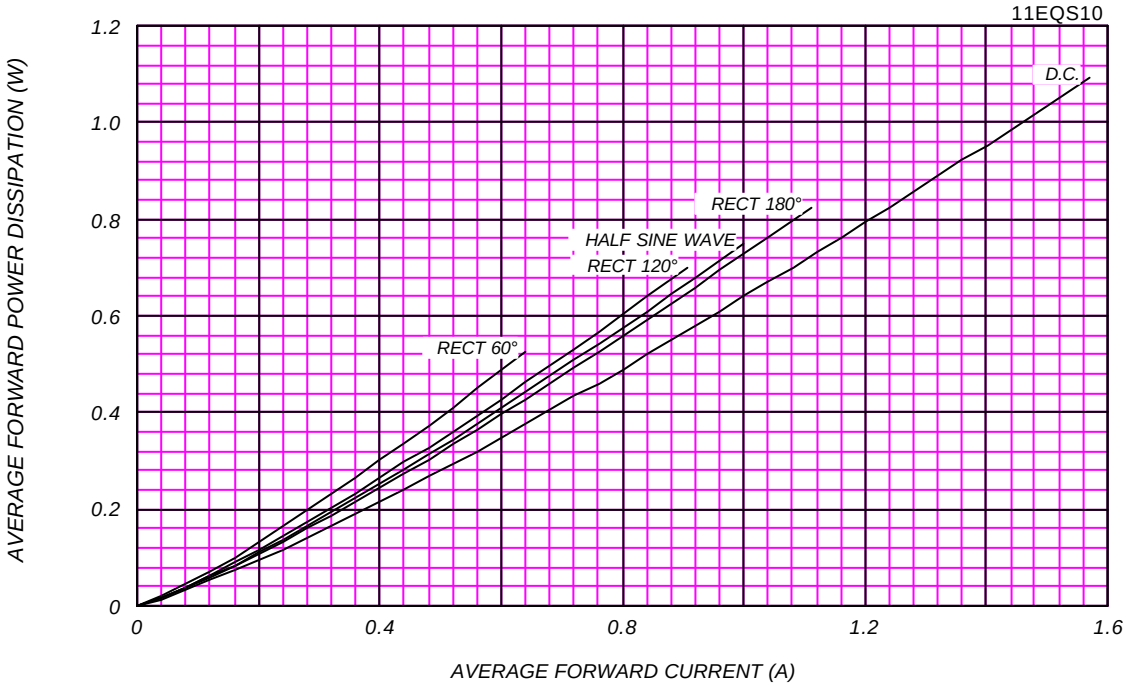


FORWARD CURRENT VS. VOLTAGE



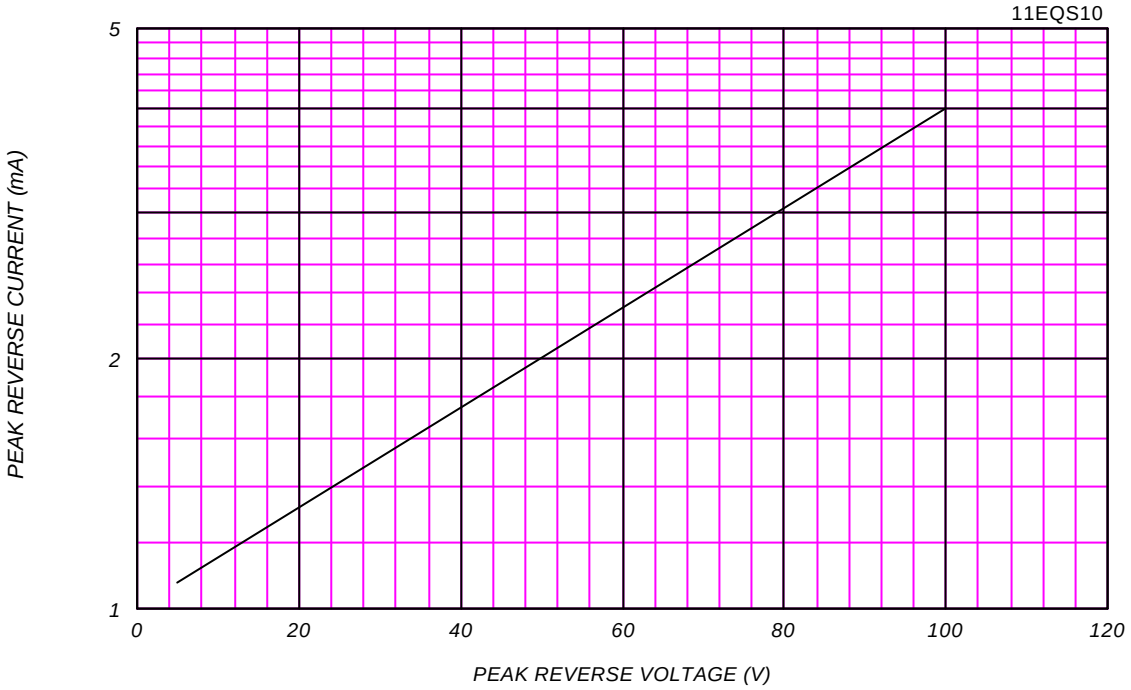


AVERAGE FORWARD POWER DISSIPATION

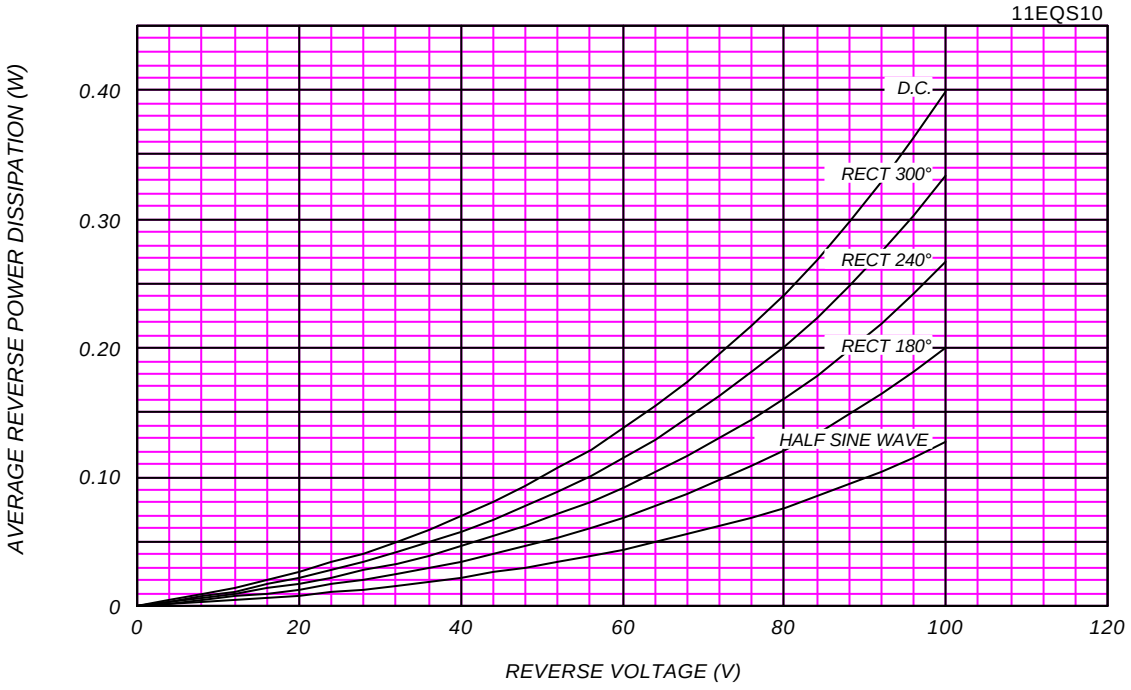


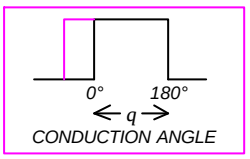
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj= 150 °C



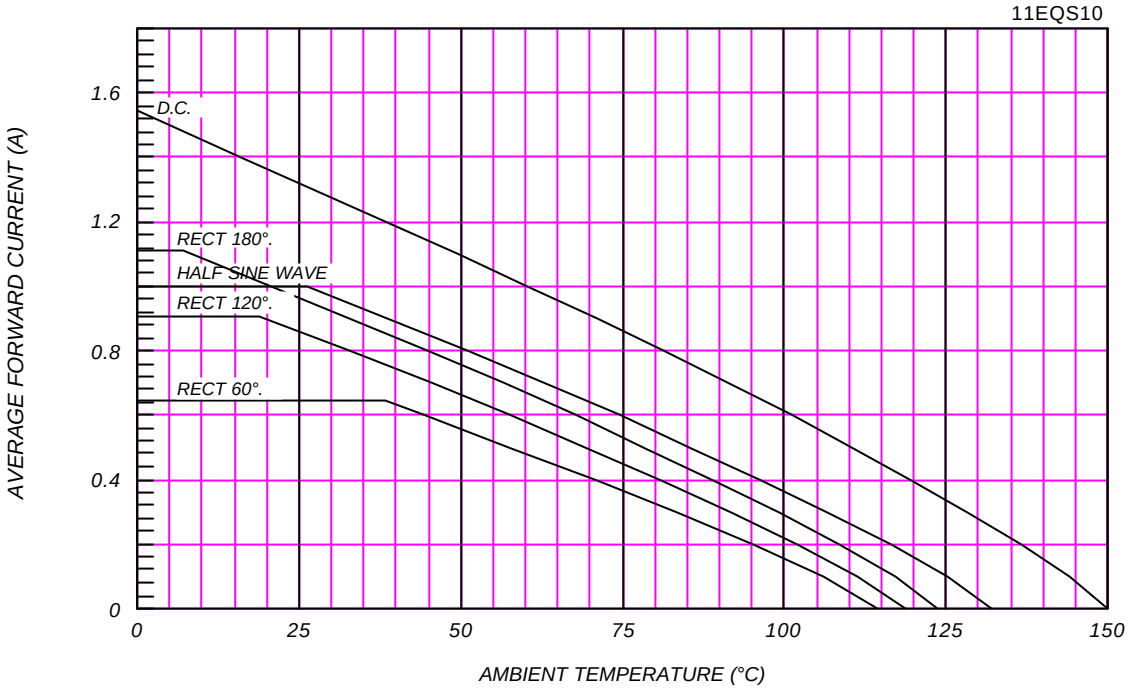
AVERAGE REVERSE POWER DISSIPATION

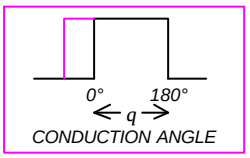




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

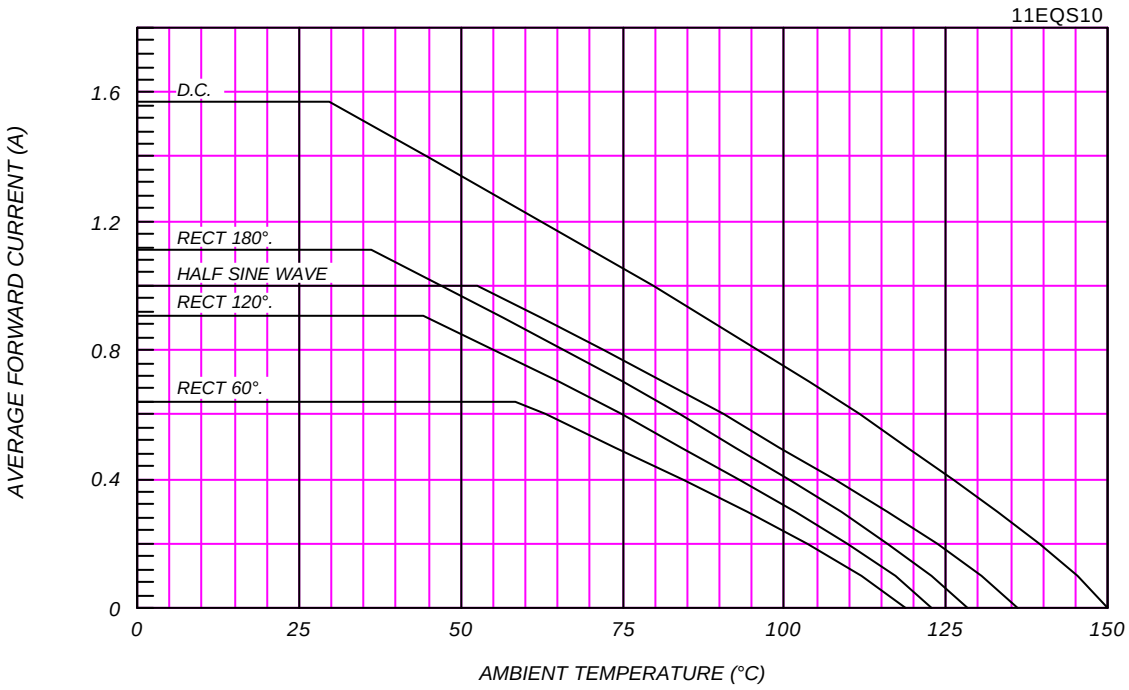
Without Fin or P.C. Board, V_{RM}=100V





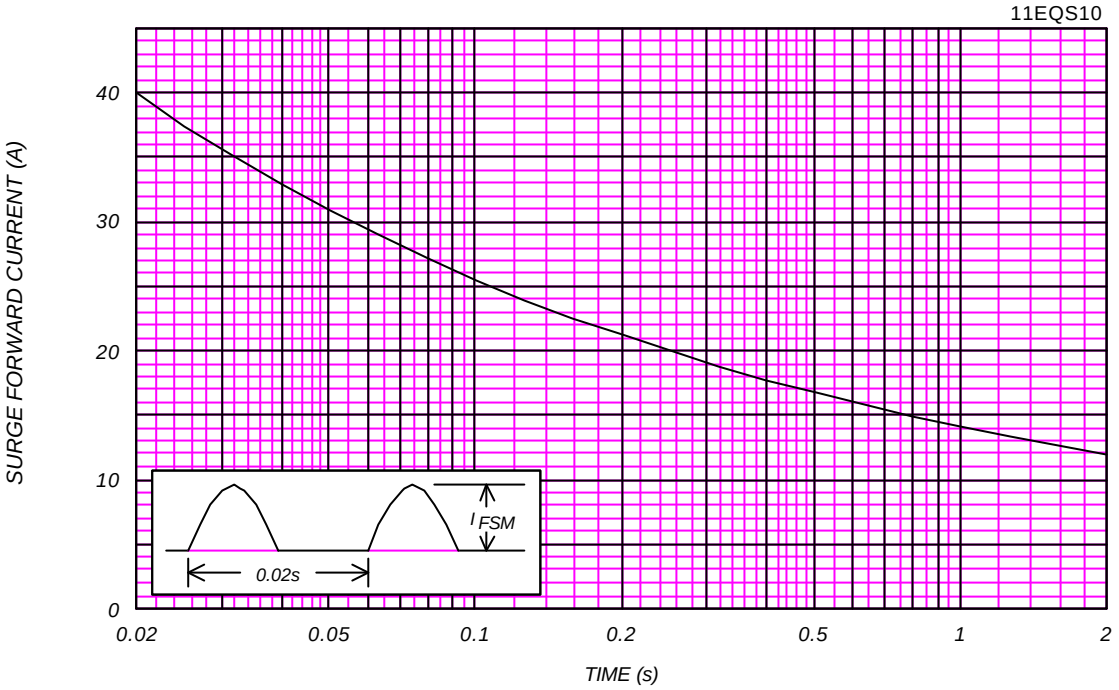
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted(L=3mm,Print Land=5×5mm), V_{RM}=100V



SURGE CURRENT RATINGS

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



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj=25°C,Vm=20mV RMS,f=100kHz,Typical Value