(VI) Nihon Inter Electronics Corporation

SBD MODULE 80A/30V

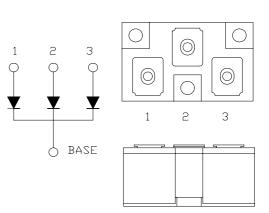
FEATURES

- * Three-Arms, Cathode Common to Base Plate
- * Extremely Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * UL Recognized, File No. E187184

Maximum Ratings

TYPICAL APPLICATIONS

* High Frequency Rectification



PE80QL03N

OUTLINE DRAWING

Approx Net Weight:65g

Voltage Rating	Symbol	PE80QL03N		Unit
Repetitive Peak Reverse Voltage	Vrrm	30		V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	35 (Pulse Width $\leq 1 \mu$ sec, Duty $\leq 1/50$)		V
Electrical Rating		Condition	Rating	
Average Rectified Output Current	Io	50Hz Half Sine Wave per Arm, Tc=99°C	80	А
RMS Forward Current	I _F (RMS)	Per Arm	125	А
Surge Forward Current	I _{FSM}	50 Hz Half Sine Wave,1cycle Non-repetitive, per Arm	1600	А
Operating JunctionTemperature Range	Tjw		-40 to +125	°C
Storage Temperature Range	Tstg		-40 to +125	°C
Mounting torque	Ftor	Case mounting(recommended) Terminal Screw(recommended)	1.45 1.45	N•m

Electrical • Thermal Characteristics

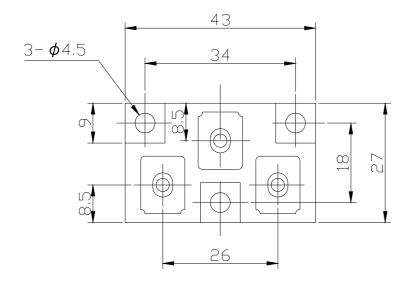
Characteristics	Symbol	Test Conditions	Max.	Unit	
Peak Forward Voltage	VFM	I _{FM} = 80A, Tj=25°C, per Arm	0.46	V	
Peak Reverse Current	IRM	V _{RM} = V _{RRM} , Tj= 25°C, per Arm	160	mA	
Thermal Resistance		Junction to Case, per Arm	0.46		
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.12	°C/W	

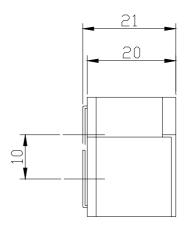
We recommend the use of the electrical conductive grease.

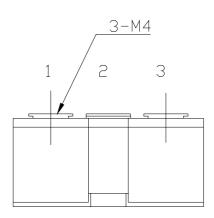
In case of parallel use, consider in balance of the current of each arms.

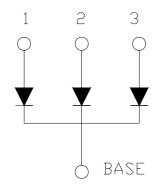


PE80QL03N OUTLINE DRAWING (Dimensions in mm)









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