Nihon Inter Electronics Corporation

FRD MODULE 270A/200V/trr:150nsec

PH270F2

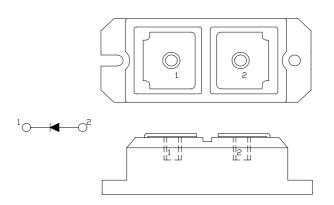
OUTLINE DRAWING

FEATURES

- * Isolated Base
- * Ultra Fast Recovery
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

* High Frequency Rectification



Maximum Ratings

Approx Net Weight:280g

Voltage Rating	Symbol	PH270F2		Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200		V
Non-repetitive Peak Reverse Voltage	V _{RSM}	220		V
Electrical Rating		Condition	Rating	
Average Rectified Output Current	Io	50Hz Half Sine Wave Tc=102°C	270	Α
RMS Forward Current	I _{F(RMS)}		424	Α
Surge Forward Current	LCM.	50 Hz Half Sine Wave,1cycle Non-repetitive	3000	A
I Squared t	I2t	2msec to 10msec	45000	A ² s
Operating JunctionTemperature Range	Tjw		-40 to +150	°C
Storage Temperature Range	Tstg		-40 to +125	°C
Isoration Voltage	Viso	Base Plate to Terminal, AC1min	2000	V
Mounting torque	Ftor	Case mounting(recommended)	2.6	N•m
		Terminal Screw(recommended)	9.0	

Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit	
Peak Forward Voltage	$V_{\rm FM}$	I _{FM} = 270A, Tj=25°C	0.97	V	
Peak Reverse Current	I_{RM}	V _{RM} = V _{RRM} , Tj= 150°C	20	mA	
Reverse Recovery Time	trr	I _{FM} = 10A, -di/dt= 50 A/μs, Ta= 25°C	150	ns	
Thermal Resistance		Junction to Case	0.17	°C/W	
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.06		

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PH270F2 OUTLINE DRAWING (Dimensions in mm)

