

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

PH270F2

OUTLINE DRAWING

FEATURES

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

Maximum Ratings

TYPICAL APPLICATIONS

* High Frequency Rectification



Approx Net Weight:280g

Voltage Rating	Symbol	PH270F2		Unit
Repetitive Peak Reverse Voltage	VRRM	200		V
Non-repetitive Peak Reverse Voltage	VRSM	220		V
Electrical Rating		Condition	Rating	
Average Rectified Output Current	Io	50Hz Half Sine Wave Tc=102°C	270	А
RMS Forward Current	I _{F(RMS)}		424	А
Surge Forward Current	IFSM	50 Hz Half Sine Wave,1cycle Non-repetitive	3000	А
I Squared t	I ² t	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	VFM	I _{FM} = 270A, Tj=25°C	0.97	V
Peak Reverse Current	I_{RM}	Vrm= Vrrm, Tj= 150°C	20	mA
Reverse Recovery Time	trr	I _{FM} = 10A, -di/dt= 50 A/µs, Ta= 25°C	150	ns
Thermal Resistance	Rth(j-c)	Junction to Case	0.17	
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.06	°C/W



PH270F2 OUTLINE DRAWING (Dimensions in mm)





