



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

# PH270F2

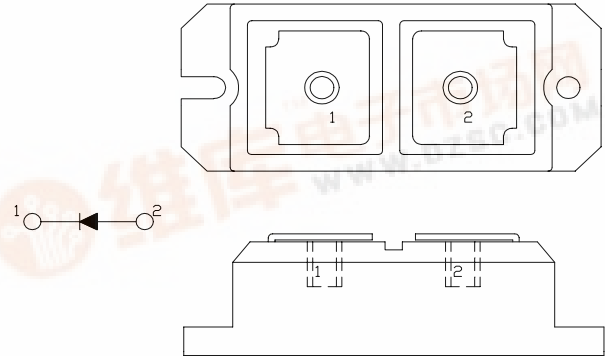
OUTLINE DRAWING

## 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	$I_o$	50Hz Half Sine Wave $T_c=102^{\circ}C$	270	A
RMS Forward Current	$I_{F(RMS)}$		424	A
Surge Forward Current	$I_{FSM}$	50 Hz Half Sine Wave, 1cycle Non-repetitive	3000	A
I Squared t	$I^2t$	2msec to 10msec	45000	A <sup>2</sup> s
Operating Junction Temperature Range	$T_{jw}$		-40 to +150	$^{\circ}C$
Storage Temperature Range	$T_{stg}$		-40 to +125	$^{\circ}C$
Isolation 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	$V_{FM}$	$I_{FM}= 270A, T_j=25^{\circ}C$	0.97	V
Peak Reverse Current	$I_{RM}$	$V_{RM}= V_{RRM}, T_j= 150^{\circ}C$	20	mA
Reverse Recovery Time	trr	$I_{FM}= 10A, -di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	150	ns
Thermal Resistance	Rth(j-c)	Junction to Case	0.17	$^{\circ}C/W$
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.06	



PH270F2 OUTLINE DRAWING (Dimensions in mm)

