

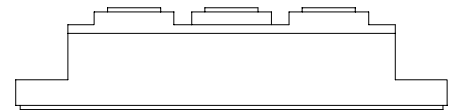
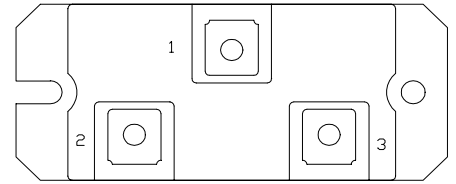
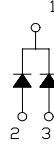
# FRD MODULE 100A/200V/trr:90nsec

# PC100F2

## OUTLINE DRAWING

### FEATURES

- \* Isolated Base
- \* Dual Diode Cathode Common
- \* Ultra Fast Recovery
- \* High Surge Capability
- \* UL Recognized, File No. E187184



### TYPICAL APPLICATIONS

- \* High Frequency Rectification

### Maximum Ratings

Approx Net Weight:210g

Voltage Rating	Symbol	PC100F2		Unit
Repetitive Peak Reverse Voltage per Arm	$V_{RRM}$	200		V
<b>Electrical Rating</b>		<b>Condition</b>	<b>Rating</b>	
Average Rectified Output Current	$I_o$	50Hz Half Sine Wave condition per Arm $T_c=99^\circ\text{C}$	100	A
RMS Forward Current	$I_{F(RMS)}$	per Arm	157	A
Surge Forward Current	$I_{FSM}$	50 Hz Half Sine Wave, 1 cycle Non-repetitive per Arm	1800	A
I Squared t	$I^2t$	2 msec to 10 msec per Arm	16200	$\text{A}^2\text{s}$
Operating Junction Temperature Range	$T_{jw}$		-40 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$		-40 to +125	$^\circ\text{C}$
Isolation Voltage	$V_{iso}$	Base Plate to Terminal, AC 1min	2000	V
Mounting torque	$F_{tor}$	Case mounting(recommended)	2.6	N.m
		Terminal Screw(recommended)	1.4	

### Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Forward Voltage	$V_{FM}$	$I_{FM}= 100\text{A}$ , $T_j=25^\circ\text{C}$ , per Arm	1.0	V
Peak Reverse Current	$I_{RM}$	$V_{RM}= V_{RRM}$ , $T_j= 150^\circ\text{C}$ , per Arm	10	mA
Reverse Recovery Time	trr	$I_{FM}= 10\text{A}$ , $-di/dt= 50 \text{ A}/\mu\text{s}$ , $T_a= 25^\circ\text{C}$ Per Arm	90	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case per Arm	0.5	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Base Plate to Heat Sink with Thermal Compound	0.1	
Internal Lead Inductance	$L_s$	Anode Terminal to Cathode Terminal Per Element	30	nH

PC100F2 OUTLINE DRAWING (Dimensions in mm)

