

FRD MODULE 100A/1200V/trr:250nsec

PD100F12

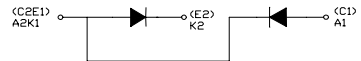
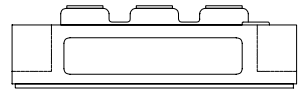
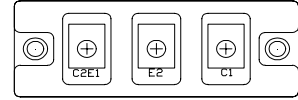
OUTLINE DRAWING

FEATURES

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

TYPICAL APPLICATIONS

- * High Frequency Rectification



Maximum Ratings

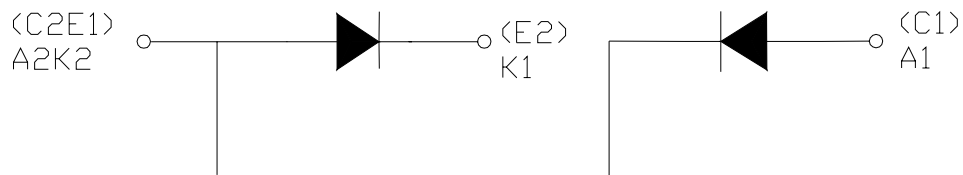
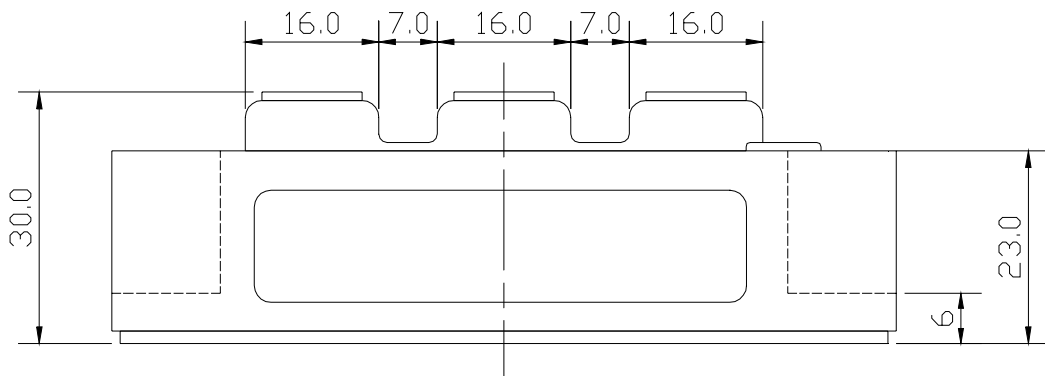
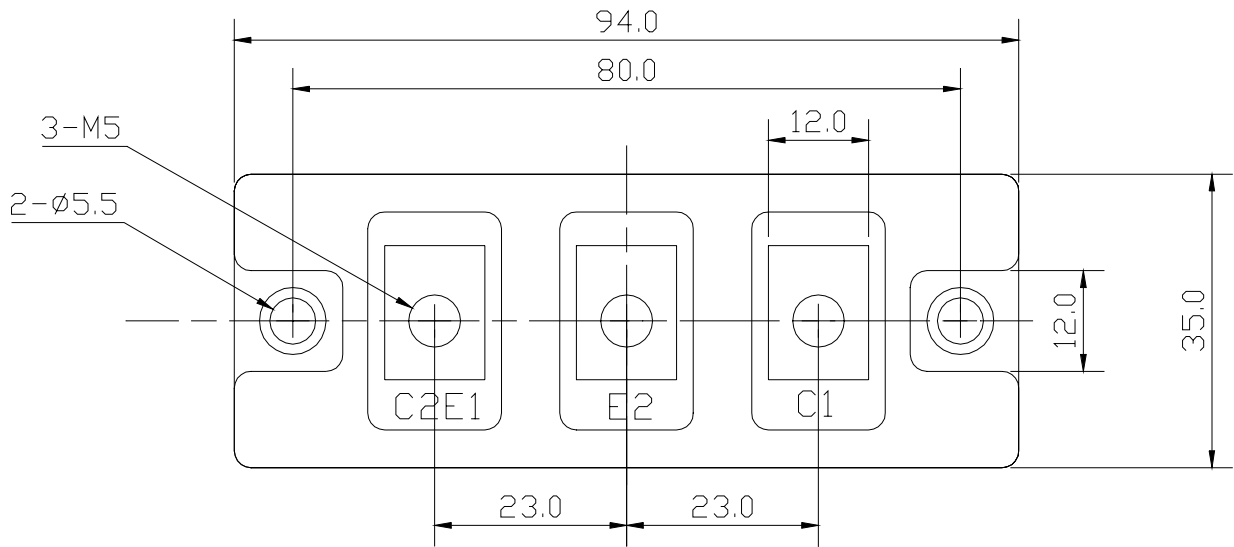
Approx Net Weight:210g

Voltage Rating	Symbol	PD100F12		Unit
Repetitive Peak Reverse Voltage per Arm	V_{RRM}	1200		V
Electrical Rating		Condition	Rating	
Average Rectified Output Current	I_o	50Hz Half Sine Wave condition per Arm $T_c=60^\circ C$	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	1000	A
I Squared t	I^2t	2 msec to 10 msec per Arm	5000	A^2s
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	2500	V
Mounting torque	Ftor	Case mounting(recommended)	2.8	N.m
		Terminal Screw(recommended)	2.8	

Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM}= 100A, T_j=25^\circ C, \text{ per Arm}$	2.60	V
Peak Reverse Current	I_{RM}	$V_{RM}= V_{RRM}, T_j= 150^\circ C, \text{ per Arm}$	20	mA
Reverse Recovery Time	trr	$I_{FM}= 10A, -di/dt= 50 A/\mu s, T_a= 25^\circ C$ Per Arm	250	ns
Thermal Resistance	Rth(j-c)	Junction to Case per Arm	0.28	$^\circ C/W$
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.1	
Internal Lead Inductance	Ls	Anode Terminal to Cathode Terminal Per Element	30	nH

PD100F12 OUTLINE DRAWING (Dimensions in mm)



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