

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

PD100F12

OUTLINE DRAWING

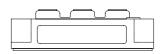
FEATURES

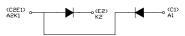
- * Isolated Base
- * Dual Diode Doubler Circuit
- * Ultra Fast Recovery
- * High Surge Capability
- * UL Recognized, File No. E187184

Maximum Ratings

TYPICAL APPLICATIONS

* High Frequency Rectification





Approx Net Weight:210g

Voltage Rating	Symbol	PD100F12		Unit
Repetitive Peak Reverse Voltage per Arm	Vrrm	1200		V
Electrical Rating		Condition	Rating	
Average Rectified Output Current	Io	50Hz Half Sine Wave condition per Arm Tc=60°C	100	А
RMS Forward Current	I _{F(RMS)}	per Arm	157	Α
Surge Forward Current	I _{FSM}	50 Hz Half Sine Wave,1cycle Non-repetitive per Arm	1000	А
I Squared t	I²t	2 msec to 10 msec per Arm	5000	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	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	VFM	I _{FM} = 100A, Tj=25°C, per Arm	2.60	V	
Peak Reverse Current	I _{RM}	V _{RM} = V _{RRM} , Tj= 150°C, per Arm	20	mA	
Reverse Recovery Time	trr	I _{FM} = 10A, -di/dt= 50 A/µs, Ta= 25°C Per Arm	250	ns	
Thermal Resistance	Rth(j-c)	Junction to Case per Arm	0.28	°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)

