

FD200K04F4

CREATEK Microelectronics

Fast Recover Diode Module

Features

- Fast Recovery,trr= 43ns
- Operating Temperature 150 °C
- Reverse Voltage 400V
- Avalanche Energy Rated

Mechanical Data

- Case: Ø4 (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals



Applications

- Switch Mode Power Supplies
- Hard Switched PFC Boost Diode
- UPS Free Wheeling Diode
- Motor Drive FWD
- SMPS FWD

Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	400	V
I _{F(AV)}	Diode Continuous Forward Current (T _c =100°C)	200	А
IFRM	Repetitive Peak Surge Current (20kHz Square Wave)	400	А
IFSM	Nonrepetitive Peak Surge Current for Per Diode (Halfwave 1 Phase 50Hz)	2000	А
TJ	Operating JunctionTemperatureRange	-55 to +150	°C
Т _{stg}	StorageTemperatureRange	-55 to +150	°C

Electrical Specifications (TJ = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
Vr	Cathode to Anode Breakdown Voltage	Ir = 100µA	400			
V _F	Diode Forward Voltage	I _F =100AT _C =25℃		1.10	1.3	V
	Diode Forward Voltage	I _F =100AT _C =125℃		1.00		V
Irm	Maximum Reverse Leakage Current	VR=400VT _C =25°C			100	μA
		VR=400VT _C =125°C			1	mA

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Absolute Maximum Ratings

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