



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 USA Tel:818-701-4933

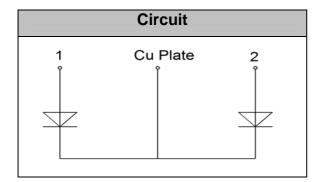
MF200K06F4

Features

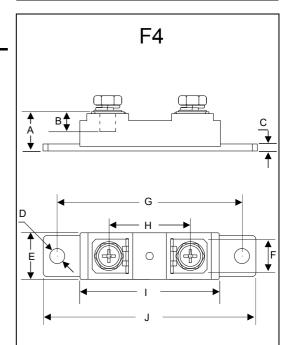
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Soft Reverse Recovery Characteristics
- Ultrafast Reverse Recovery Time
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package

Applications

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Power Factor Correction (PFC) Circuit
- Converter & Chopper



200 Amp FRED Modules 600 Volts



DIMENSIONS							
DIM	INCHES		M	NOTE			
	MIN	MAX	MIN	MAX	NOTE		
Α	0.657	0.681	16.50	17.50			
В	0.343	0.366	8.50	9.50			
С	0.118	0.130	2.80	3.50			
D	0.256		6.50		Ø		
Е	0.776	0.799	19.50	20.50			
F	0.539	0.563	13.50	14.50			
G	3.138	3.161	79.50	80.50			
Н	1.366	1.390	34.50	35.50			
I	2.350	2.374	59.50	60.50			
J	3.610	3.634	91.50	92.50			

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Maximum Ratings

Symbol	Conditions	Values	Units
V_R		600	V
V_{RRM}		600	V
	T _C =125°C, Per Diode	100	Α
I _{F(AV)}	T _C =125°C, Per Moudle	200	Α
	T _C =125°C, 20KHz, Per Moudle	141	Α
I _{F(RMS)}	T _C =125°C, Per Diode	141	Α
	1/2 Cycle , 50Hz, Sine	2100	Α
I _{FSM}	1/2 Cycle , 60Hz, Sine	2350	Α
l ² t	T _J =45°C, t=10ms, 50Hz, Sine	22000	A ² s
''	T _J =45°C, t=8.3ms, 60Hz, Sine	27600	A ² s
P _D		1400	W
TJ		-40 to +150	°C
T _{STG}		-40 to +125	°C
Torque	Recommended (M6)	3~4.7	N·m
Torque	Recommended (M6)	3~4.7	N·m
Weight		92	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.09	°C/W

Electrical Characteristics

Symbol	Conditions		Values	3	Units	
Syllibol	Conditions	Min.	Тур.	Max.	Offics	
I _{RM}	V _R =600V			0.5	mA	
	V _R =600V, T _J =125°C			1	mA	
V _F	I _F =100A		1.15		V	
	I _F =100A, T _J =125°C		1.0		V	
trr	I_F =1A, V_R =30V, di_F/dt =-200A/ μ s		48		ns	
trr	V =200V I =400A di /dt= 200A/v;a T =25°C		105		ns	
I _{RRM}	V_R =300V, I_F =100A, di_F/dt =-200A/ μ s, T_J =25°C		10		Α	
trr	V _R =300V, I _F =100A, di _F /dt=-200A/μs, T _J =125°C		200		ns	
I _{RRM}			18		Α	

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• M•C•C

Performance Curves

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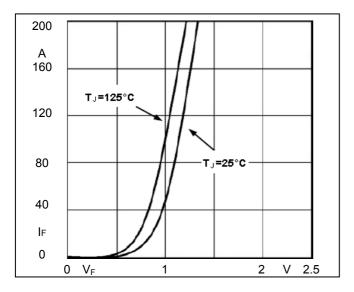


Fig1. Forward Voltage Drop vs Forward Current

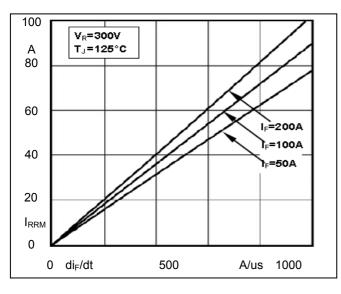


Fig3. Reverse Recovery Current vs di_F/dt

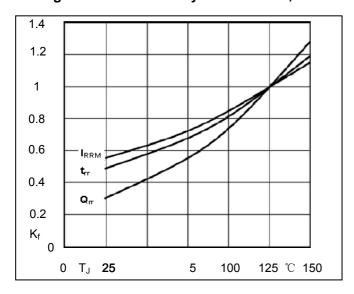


Fig5. Dynamic Parameters vs Junction Temprature

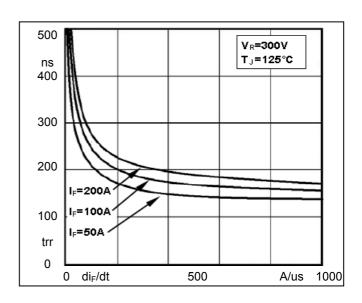


Fig2. Reverse Recovery Time vs di_F/dt

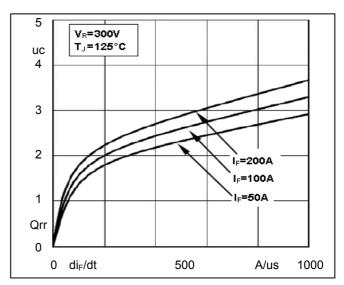


Fig4. Reverse Recovery Charge vs di_F/dt

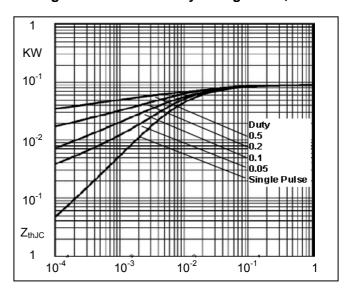


Fig6. Transient Thermal Impedance



Ordering Information:

Device	Packing			
Part Number-BP	Bulk: 12PCS/BOX ;120PCS/CTN			

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25.163.2453.	0 25.163.4253.0	25.190.2053.0	25.194.3453.0	25.320.4853.1	25.320.5253.1	25.326.3253.1	25.326.3553.1	25.330.1653.1
25.330.4753.	1 25.330.5253.1	25.334.3253.1	25.334.3353.1	25.350.2053.0	25.352.4753.1	25.522.3253.0	<u>T483C</u> <u>T484C</u>	<u>T485F</u> <u>T485H</u>
<u>T512F-YEB</u>	<u>T513F</u> <u>T514F</u>	T554 T612FSE	25.161.3453.0	25.179.2253.0	25.194.3253.0	25.325.1253.1	25.326.4253.1	25.330.0953.1
25.332.4353.	1 25.350.1653.0	25.350.2453.0	25.352.1453.0	25.352.1653.0	25.352.2453.0	25.352.5453.1	25.522.3353.0	25.602.4053.0
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