

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MF200K06F4

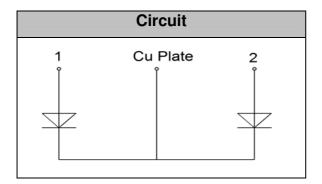
Features

- 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

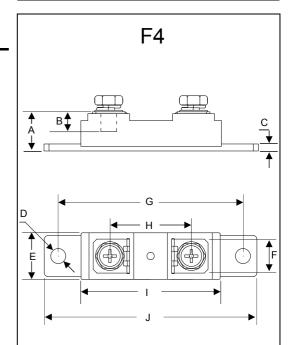
Applications

- 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					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.657	.681	16.70	17.30	
В	.343	.366	8.70	9.30	
C	.118	.130	3.00	3.30	
D	.256		6.50		Ø
Е	.776	.799	19.70	20.30	
F	.539	.563	13.70	14.30	
G	3.138	3.161	79.70	80.30	
Н	1.366	1.390	34.70	35.30	
	2.350	2.374	59.70	60.30	
J	3.610	3.634	91.70	92.30	
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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			Units
Syllibol	Conditions		Тур.	Max.	Ullits
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 _R =300V, I _F =100A, di _F /dt=-200A/μs, T _J =25°C		105		ns
I _{RRM}			10		Α
trr	\/ -200\/ -100A di /dt- 200A/// T -125°C		200		ns
I _{RRM}	V_R =300V, I_F =100A, di_F/dt =-200A/ μ s, T_J =125°C		18		Α

MF200K06F4

•M•C•C•

Performance Curves

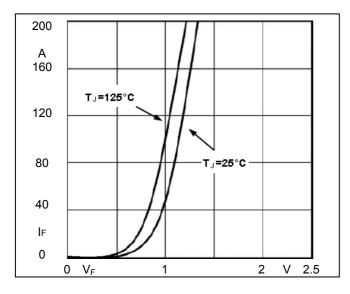


Fig1. Forward Voltage Drop vs Forward Current

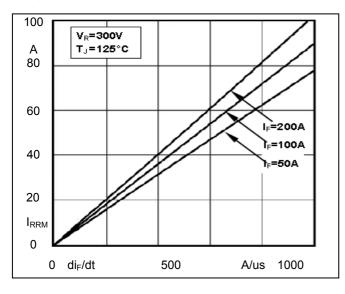


Fig3. Reverse Recovery Current vs di_F/dt

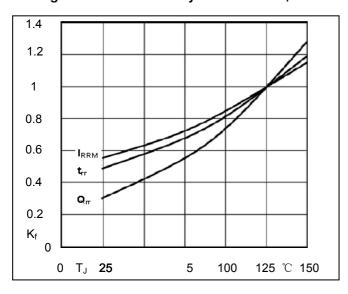


Fig5. Dynamic Parameters vs Junction Temprature

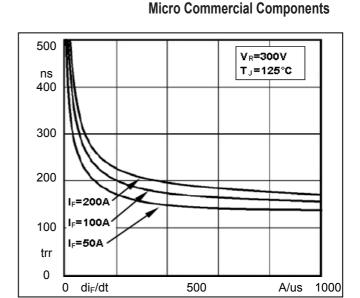


Fig2. Reverse Recovery Time vs di_F/dt

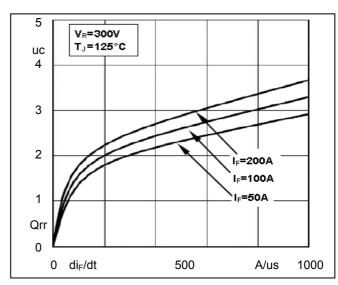


Fig4. Reverse Recovery Charge vs di_F/dt

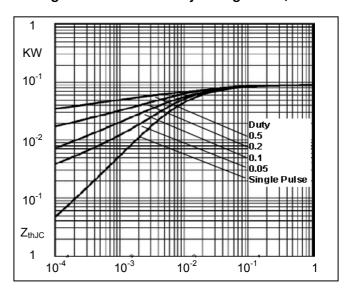


Fig6. Transient Thermal Impedance



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 12PCS/BOX;1200PCS/CTN

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