

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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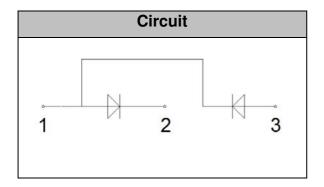
MF150C06F2

Features

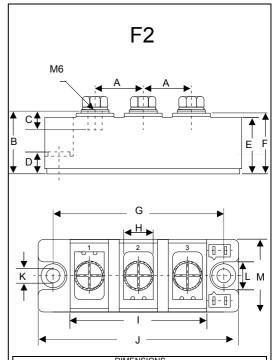
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Soft Reverse Recovery Characteristics
- Ultrafast Reverse Recovery Time
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package

Applications

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



150 Amp FRED Modules 600 Volts



DIMENSIONS					
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.894	.917	22.70	23.30	
В	1.169	1.193	29.70	30.30	
С	.343	.366	8.70	9.30	
D	.323	.343	8.20	8.70	
Е	1.051	1.075	26.70	27.30	
F	1.130	1.154	28.70	29.30	
G	.120	.130	79.70	80.30	
Н	.500	.524	12.70	13.30	
- [2.501	2.531	63.70	64.30	
J	3.689	3.713	93.70	94.30	
K	.256		6.50		Ø
Ĺ	.500	.524	12.70	13.30	
М	1.327	1.350	33.70	34.30	
171	1.321	1.550	55.70	54.50	l .

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Maximum Ratings

Symbol	Conditions	Values	Units
V _R		600	V
V_{RRM}		600	V
	T _C =100°C, Per Diode	150	А
I _{F(AV)}	T _C =100°C, Per Module	300	
	T _C =110°C, 20KHz, Per Module	200	А
I _{F(RMS)}	T _C =100°C, Per Diode	220	А
	1/2 Cycle , 50Hz, Sine	1400	А
I _{FSM}	1/2 Cycle , 60Hz, Sine	1500	А
124	T _J =45°C, t=10ms, 50Hz, Sine	9800	A ² s
I ² t	T _J =45°C, t=8.3ms, 60Hz, Sine	11200	A ² s
P _D		370	W
Visol	AC, Ton=1min	3000	V
TJ		-40 to +150	°C
T _{STG}		-40 to +125	°C
Torque	Recommended (M6)	5±15%	N·m
Torque	Recommended (M6)	5±15%	N·m
Weight		160	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per Module	0.34	°C/W

Electrical Characteristics

Cymbol	Conditions	Values			Units
Symbol	Conditions		Тур.	Max.	Ullits
	V _R =600V			1	mA
I _{RM}	V _R =600V, T _J =125°C			5	mA
V _F	I _F =150A		1.45	1.6	V
	I _F =150A, T _J =125°C			1.45	V
trr	I_F =1A, V_R =30V, di_F/dt =-200A/ μ s		50		ns
trr	V =200V L =150A di /dt= 200A/up T =25°C		130		ns
I _{RRM}	V_R =300V, I_F =150A, di_F/dt =-200A/ μ s, T_J =25°C		14		Α
trr	V =200V L =150A di /dt= 200A/vo T =125°C		220		ns
I _{RRM}	V_R =300V, I_F =150A, di_F/dt =-200A/ μ s, T_J =125°C		22		А

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Performance Curves

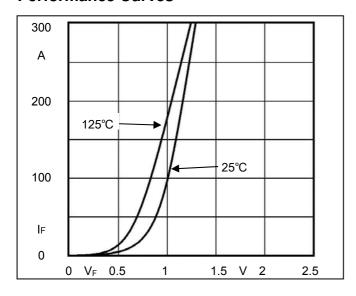


Fig1. Forward Voltage Drop vs Forward Current

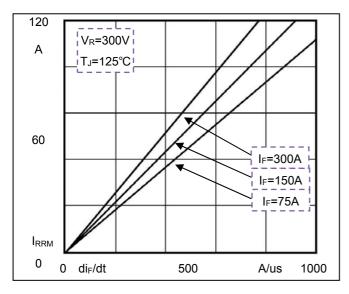


Fig3. Reverse Recovery Current vs di_F/dt

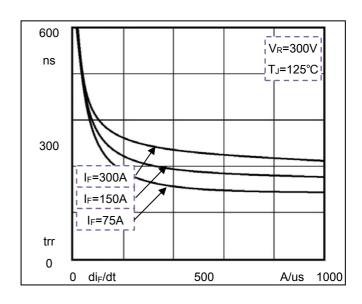


Fig2. Reverse Recovery Time vs di_F/dt

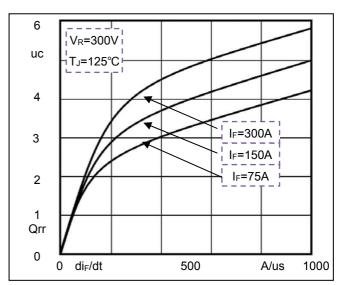


Fig4. Reverse Recovery Charge vs di_F/dt



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 8PCS/BOX;80PCS/CTN

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