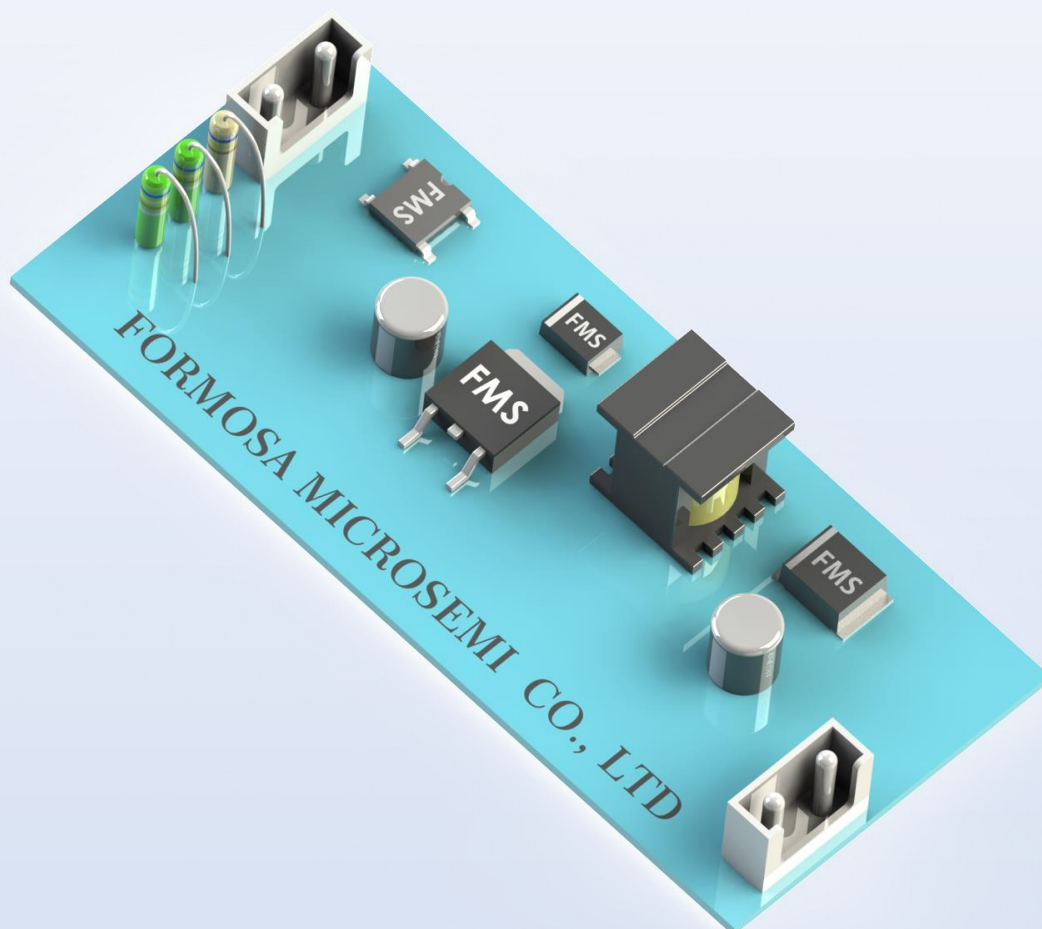




Insulated flyback converter power supply Application Guide Reference Manual





Formosa Microsemi CO.,LTD.

Power Application Guide Manual

- High Quality
- Service priority
- Customer Satisfaction
- Continuous improvement

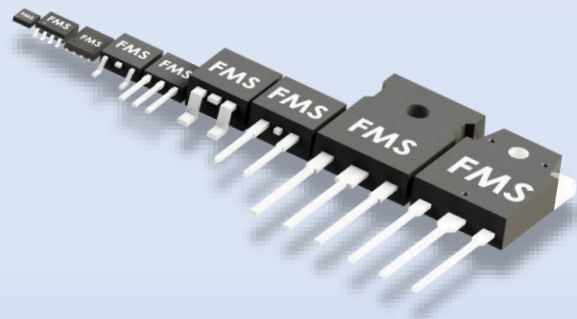
Established : July, 1996
 Located : Taipei , Taiwan
 Administration Center

Focus on Power/ Protection devices development
 (**M**OSFETs/**E**SD/**T**VS/**D**iode/**Z**ener...etc)

High Performance/Best Quality & Service Provider

Implement Quality Theory To Create Customer Satisfaction

ISO 9001 Ceritifiaction:2019
 Plan AEC-Q101
 Supply Chain:
 IATF 16949 PASS
 ISO 14001 PASS

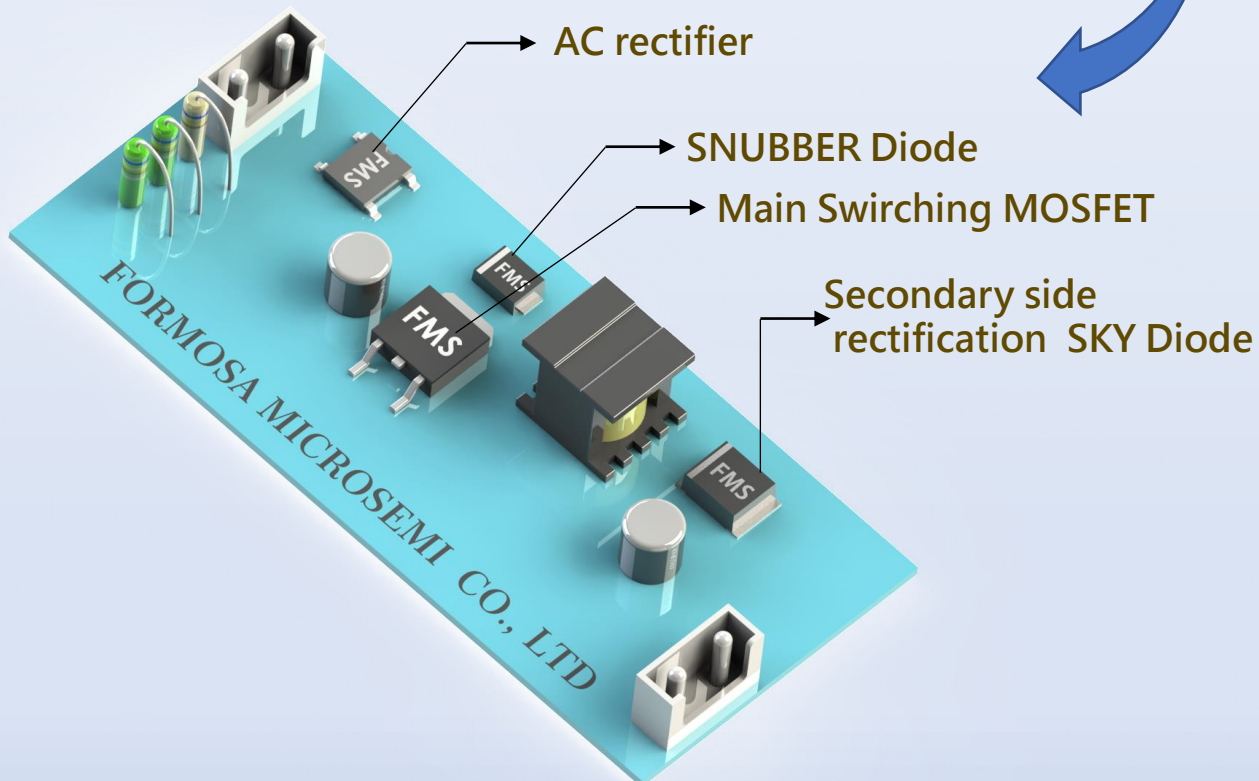
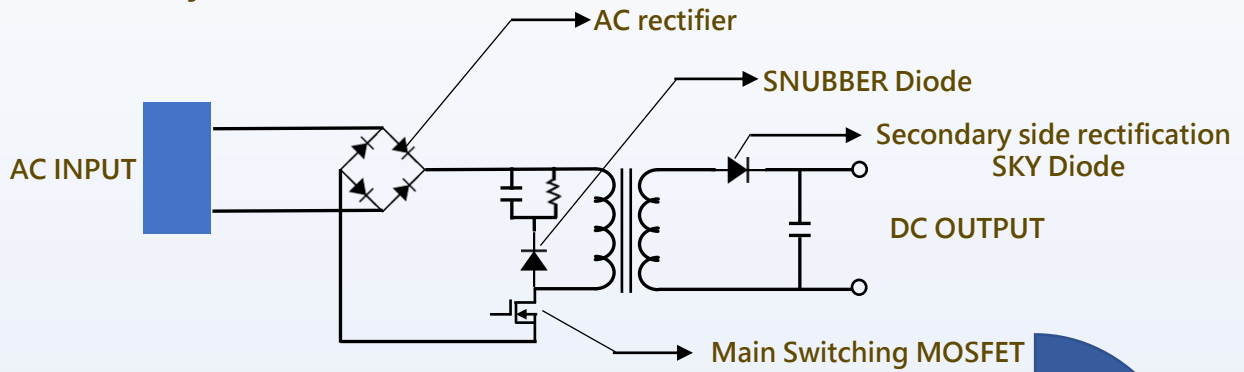


Market application main MOSFET specification range

N-Channel market application specification range				
Market APP	Max VDS(V)	Min VDS(V)	Max ID(A)	Min ID(A)
B.M.S	150	30	300	70
DC to DC Converter(Hi Voltage)	70	25	200	70
UPS Power Inverter	300	70	200	70
Power Switch	65	25	220	35
Audio Amplifier	200	35	70	20
Industrial Control	220	35	70	20
Power Bank	40	20	50	20
Battery Pack	40	20	20	5
DC Fan	220	5	20	2
UPS	650	170	20	10
LED Lighting	1000	450	25	1
ballast	650	550	20	1
SMPS Adapter Quick Charger	1000	400	25	1
S.R. Quick Charger	100	35	35	20

P-Channel market application specification range				
Market APP	Max VDS(V)	Min VDS(V)	Max ID(A)	Min ID(A)
DC to DC Converter	-20	-50	-40	-200
Power Bank	-25	-45	-15	-30
DC Fan	-25	-70	-10	-20
POE	-120	-300	-10	-15
NET Work	-60	-300	-40	-80
NoteBook	-150	-60	-40	-80

Regarding the industry's processing applications of insulated flyback converter power supplies, Formosa has four major types of support, including AC rectification function, SNUBBER buffer diode, main current switch MOSFET, and transformer secondary side rectification.



Recommended components for power supply with different power



OUTPUT: 5V 5~100W



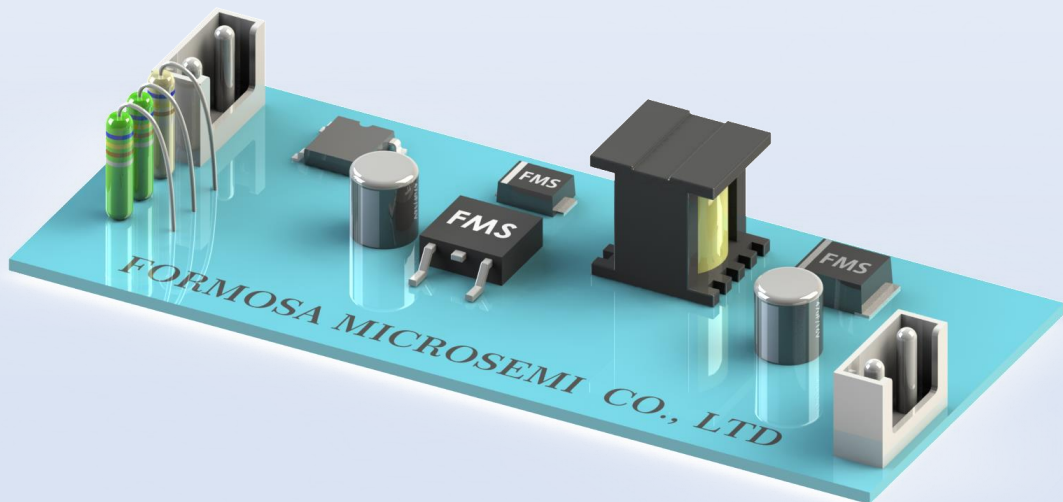
OUTPUT: 12V 5~100W



OUTPUT: 24V 10~150W

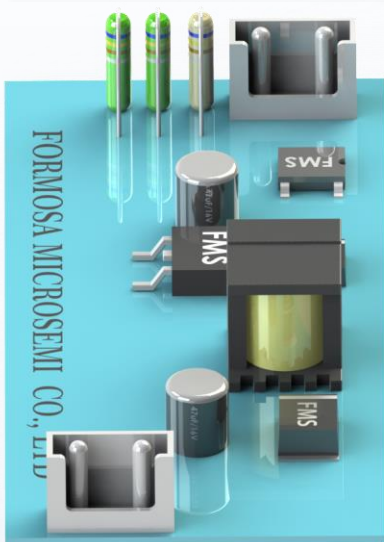


OUTPUT: 48V 50~200W





OUTPUT: 5V 5~100W



OUTPUT: 5V 5W

OUTPUT: 5V 10W

OUTPUT: 5V 20W

OUTPUT: 5V 30W

OUTPUT: 5V 50W

OUTPUT: 5V 75W

OUTPUT: 5V 100W

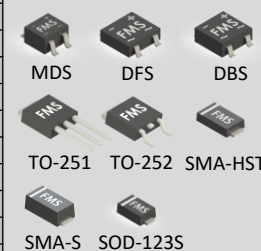
OUTPUT: 5V 5W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 5		Vout(V)= 5		lout(A)= 1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 0.20		Io -		Id > 0.20		Io > 1.20			
Ipk > 0.36		Ipk -		Ipk > 0.36		Ipk > 4.16			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
B10S	MDS	HFM107-MS	SOD-123S	FMOSD01N80	TO-251	FM2L40-N	SOD-323		
MB10S	MDS	HFM107-S	SMA-S	FMOSU01N80	TO-252	SL24-S	SMA-S		
DF10S	DFS/DBS			FMOSD01N90	TO-251	SL24-HST	SMA-HST		
FM4007-MS	SOD-123S			FMOSU01N90	TO-252				
FM4007-S	SMA-S								



OUTPUT: 5V 10W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 10		Vout(V)= 5		lout(A)= 2	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 0.40		Io -		Id > 0.40		Io > 2.40			
Ipk > 0.71		Ipk -		Ipk > 0.71		Ipk > 8.33			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
B10S	MDS	HFM107-MS	SOD-123S	FMOSD01N80	TO-251	FM340-AS	SMA-S		
MB10S	MDS	HFM107-S	SMA-S	FMOSU01N80	TO-252	FM3L40-AS	SMA-S		
DF10S	DFS/DBS			FMOSD01N90	TO-251				
FM4007-MS	SOD-123S			FMOSU01N90	TO-252				
FM4007-S	SMA-S								



OUTPUT: 5V 20W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 20		Vout(V)= 5		lout(A)= 4	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 0.79		Io -		Id > 0.79		Io > 4.80			
Ipk > 1.43		Ipk -		Ipk > 1.43		Ipk > 16.66			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
DF1510S	DFS	HFM107-MS	SOD-123S	FMOSD02N80	TO-251	FM5L40-AS	SMA-S		
DB157S	DBS	HFM107-S	SMA-S	FMOSU02N80	TO-252	FM5L40-AS	SMA-S		
DF210S	DFS			FMOSD02N90	TO-251				
DB207S	DBS			FMOSU02N90	TO-252				
FM207-BS	SMB-S								
FM207-S	SMA-S								

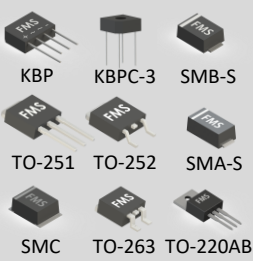
OUTPUT: 5V 30W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 30		Vout(V)= 5		lout(A)= 6	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 1.19		Io -		Id > 1.19		Io > 7.20			
Ipk > 2.14		Ipk -		Ipk > 2.14		Ipk > 24.99			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
DF1510S	DFS	HFM207-S	SMA-S	FMOSD03N80	TO-251	FM1040-T3	SMC-T3		
DB157S	DBS	HFM207-BS	SMB-S	FMOSU03N80	TO-252	FM840-T7B	TO-277B		
DF210S	DFS			FMOSD03N90	TO-251				
DB207S	DBS			FMOSU03N90	TO-252				
FM207-BS	SMB-S								
FM207-S	SMA-S								

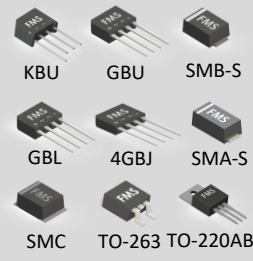
OUTPUT: 5V 50W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 50		Vout(V)= 5		lout(A)= 10	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 1.98		Io -		Id > 1.98		Io > 12.00			
Ipk > 3.57		Ipk -		Ipk > 3.57		Ipk > 41.65			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
DF210S	DFS	HFM207-S	SMA-S	FMOSD04N80	TO-251	FM1240-T7B	TO-277B		
DB207S	DBS	HFM207-BS	SMB-S	FMOSU04N80	TO-252	FM15L40-T7B	TO-277B		
FM207-BS	SMB-S			FMOSD04N90	TO-251				
FM207-S	SMA-S			FMOSU04N90	TO-252				

OUTPUT: 5V 75W

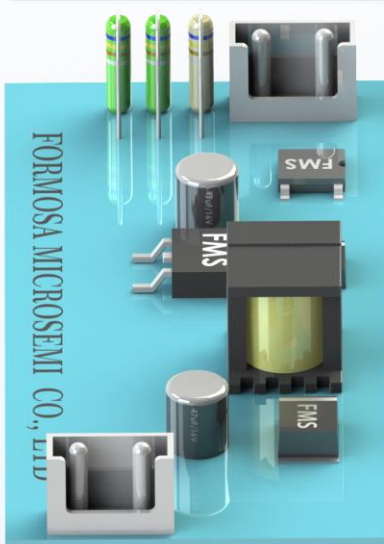
AC in(min)= 85		AC in(max)= 264		Pout(W)= 75		Vout(V)= 5		Iout(A)= 15	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 2.97		Io -		Id > 2.97		Io > 18.00			
Ipk > 5.35		Ipk -		Ipk > 5.35		Ipk > 62.47			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
KBP310G	KBP	HFM307-AS	SMA-S	FMOSD06N80	TO-251	SKFM2040C-D2	TO-263		
BR310	KBPC-3	HFM307-BS	SMB-S	FMOSU06N80	TO-252	MBR20L45CT	TO-220AB		
		HFM307	SMC	FMOSD06N90	TO-251				
				FMOSU06N90	TO-252				

OUTPUT: 5V 100W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 100		Vout(V)= 5		Iout(A)= 20	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 37			
Io > 3.97		Io -		Id > 3.97		Io > 24.00			
Ipk > 7.14		Ipk -		Ipk > 7.14		Ipk > 83.29			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU4M	GBU	HFM307	SMC	FMOSPFA08N80	TO-263	MBR30L45CT	TO-220AB		
KBU410	KBU	HFM307-BS	SMB-S	FMOSP08N80A	TO-220AB	MBR30L45FCT	TO-220AB		
GBL4M	GBL	HFM307-AS	SMA-S	FMOSPFA08N90	TO-263				
GBJ4M	4GBJ			FMOSP08N90	TO-220AB				



OUTPUT: 12V 5~100W



OUTPUT: 12V 5W

OUTPUT: 12V 10W

OUTPUT: 12V 20W

OUTPUT: 12V 30W

OUTPUT: 12V 50W

OUTPUT: 12V 75W

OUTPUT: 12V 100W

OUTPUT: 12V 5W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 5		Vout(V)= 12		Iout(A)= 0.4	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 81			
Io > 0.20		Io -		Id > 0.20		Io > 0.50			
Ipk > 0.32		Ipk -		Ipk > 0.32		Ipk > 1.74			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
B10S	MDS	HFM107-MS	SOD-123	FMOSD01N80	TO-251	SL110-MS	SOD-123S		
MB10S	MDS	HFM107-S	SMA-S	FMOSU01N80	TO-252	FM1100-MS	SOD-123S		
DF10S	DFS/DBS			FMOSD01N90	TO-251	FM1100-S	SMA-S		
FM4007-MS	SOD-123S			FMOSU01N90	TO-252				

OUTPUT: 12V 10W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 10		Vout(V)= 12		Iout(A)= 0.8	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 81			
Io > 0.40		Io -		Id > 0.40		Io > 1.00			
Ipk > 0.64		Ipk -		Ipk > 0.64		Ipk > 3.47			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
B10S	MDS	HFM107-MS	SOD-123	FMOSD01N80	TO-251	SL110-MS	SOD-123S		
MB10S	MDS	HFM107-S	SMA-S	FMOSU01N80	TO-252	FM1100-MS	SOD-123S		
DF10S	DFS/DBS			FMOSD01N90	TO-251	FM1100-S	SMA-S		
FM4007-MS	SOD-123S			FMOSU01N90	TO-252				

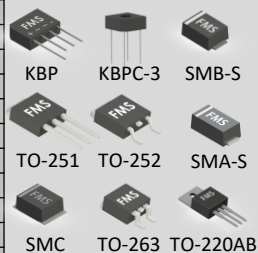
OUTPUT: 12V 20W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 20		Vout(V)= 12		Iout(A)= 1.7		Duty= 0.42	
整流器		Snubber Diode		MOSFET		SKY Diode		 KBP  KBPC-3  SMB-S			
Vr > 813		Vr > 813		Vds > 813		Vr > 81					
Io > 0.79		Io -		Id > 0.79		Io > 2.00					
Ipk > 1.29		Ipk -		Ipk > 1.29		Ipk > 6.94					
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package	 TO-251  TO-252  SMA-S  SMC  TO-263  TO-220AB			
B10S	MDS	HFM107-MS	SOD-123	FMOSD02N80	TO-251	SL210-MS	SOD-123S				
MB10S	MDS	HFM107-S	SMA-S	FMOSU02N80	TO-252	FM2100-MS	SOD-123S				
DF10S	DFS/DBS			FMOSD02N90	TO-251	FM2100-S	SMA-S				
FM4007-MS	SOD-123S			FMOSU02N90	TO-252						

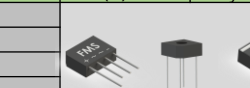


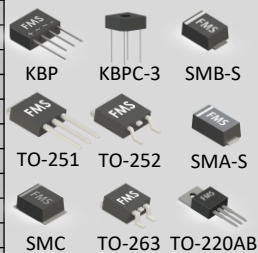
OUTPUT: 12V 30W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 30		Vout(V)= 12		Iout(A)= 2.5		Duty= 0.42	
整流器		Snubber Diode		MOSFET		SKY Diode		 KBP  KBPC-3  SMB-S  TO-251  TO-252  SMA-S  SMC  TO-263  TO-220AB			
Vr > 813		Vr > 813		Vds > 813		Vr > 81					
Io > 1.19		Io -		Id > 1.19		Io > 3.00					
Ipk > 1.93		Ipk -		Ipk > 1.93		Ipk > 10.41					
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package				
DF210	DF	HFM207-S	SMA-S	FMOSD02N80	TO-251	FM3100-AS	SMA-S				
DB207	DB	HFM207-BS	SMB-S	FMOSU02N80	TO-252	FM3L100-AS	SMA-S				
KBP210G	KBP			FMOSD02N90	TO-251						
GBP2M	GBP			FMOSU02N90	TO-252						



OUTPUT: 12V 50W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 50		Vout(V)= 12		Iout(A)= 4.2		Duty= 0.42	
整流器		Snubber Diode		MOSFET		SKY Diode		 KBP KBPC-3 SMB-S TO-251 TO-252 SMA-S SMC TO-263 TO-220AB			
Vr > 813	Vr > 813	Vds > 813	Vr > 81								
Io > 1.98	Io -	Id > 1.98	Io > 5.00								
Ipk > 3.22	Ipk -	Ipk > 3.22	Ipk > 17.35								
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package				
DF210	DF	HFM207-S	SMA-S	FMOSD03N80	TO-251	FM5L100-AS	SMA-S				
DB207	DB	HFM207-BS	SMB-S	FMOSU03N80	TO-252	FM5100-AS	SMA-S				
KBP210G	KBP			FMOSD03N90	TO-251	FM5100-T7B	TO-277B				
GBP2M	GBP			FMOSU03N90	TO-252	FM5L100-T7B	TO-277B				
						SKFM5200Y-D	TO-252				



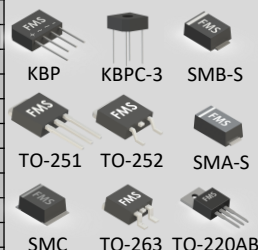
OUTPUT: 12V 75W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 75		Vout(V)= 24		lout(A)= 3.1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 156			
Io > 2.97		Io -		Id > 2.97		Io > 3.75			
Ipk > 4.65		Ipk -		Ipk > 4.65		Ipk > 13.01			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
KBP310G	KBP	HFM207-S	SMA-S	FMOSD05N80	TO-251	FM5L100-AS	SMA-S		
BR310	KBP-3	HFM207-BS	SMB-S	FMOSU05N80	TO-252	FM5100-AS	SMA-S		
				FMOSD05N90	TO-251	FM5100-T7B	TO-277B		
				FMOSU05N90	TO-252	FM5L100-T7B	TO-277B		
						SKFM5200Y-D	TO-252		



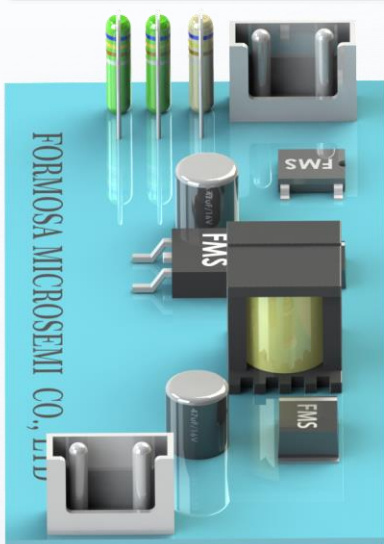
OUTPUT: 12V 100W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 100		Vout(V)= 12		lout(A)= 8.3	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 81			
Io > 3.97		Io -		Id > 3.97		Io > 10.00			
Ipk > 6.45		Ipk -		Ipk > 6.45		Ipk > 34.71			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU4M	GBU	HFM307-S	SMA-S	FMOSD06N80	TO-251	FM10100-T3	SMC-T3		
KBU410	KBU	HFM307-BS	SMB-S	FMOSU06N80	TO-252	FM10100-T7B	TO-277B		
GBL4M	GBL			FMOSD06N90	TO-251	FM10L100-T7B	TO-277B		
GBJ4M	4GBJ			FMOSU06N90	TO-252	SKFM10100Y-D	TO-252		
						MBR10L300CT	TO-220AB		





OUTPUT: 24V 10~150W



OUTPUT: 24V 10W

OUTPUT: 24V 25W

OUTPUT: 24V 35W

OUTPUT: 24V 50W

OUTPUT: 24V 75W

OUTPUT: 24V 100W

OUTPUT: 24V 150W

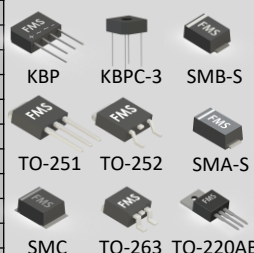
OUTPUT: 24V 10W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 10		Vout(V)= 24		Iout(A)= 0.4	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 156			
Io > 0.40		Io -		Id > 0.40		Io > 0.50			
Ipk > 0.62		Ipk -		Ipk > 0.62		Ipk > 1.74			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
B10S	MDS	HFM107-MS	SOD-123	FMOSD01N80	TO-251	SL120-MS	SOD-123S		
MB10S	MDS	HFM107-S	SMA-S	FMOSU01N80	TO-252	SL120-MST	SOD-123ST		
DF10S	DFS/DBS			FMOSD01N90	TO-251	FM1200-M	SOD-123		
FM4007-MS	SOD-123S			FMOSU01N90	TO-252	FM1200-MS	SOD-123S		
						FM1200-S	SMA-S		



OUTPUT: 24V 25W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 25		Vout(V)= 24		Iout(A)= 1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 156			
Io > 0.99		Io -		Id > 0.99		Io > 1.25			
Ipk > 1.55		Ipk -		Ipk > 1.55		Ipk > 4.34			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
B10S	MDS	HFM107-MS	SOD-123	FMOSD02N80	TO-251	FM2200-M	SOD-123		
MB10S	MDS	HFM107-S	SMA-S	FMOSU02N80	TO-252	FM2200-MS	SOD-123S		
DF10S	DFS/DBS			FMOSD02N90	TO-251	FM2200-S	SMA-S		
FM4007-MS	SOD-123S			FMOSU02N90	TO-252	FM2200-HST	SMA-HST		
						FM2200-BS	SMB-S		



OUTPUT: 24V 35W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 35		Vout(V)= 24		Iout(A)= 1.5	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 156			
Io > 1.39		Io -		Id > 1.39		Io > 1.75			
Ipk > 2.17		Ipk -		Ipk > 2.17		Ipk > 6.07			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
DF210	DF	HFM207-S	SMA-S	FMOSD03N80	TO-251	FM2200-M	SOD-123		
DB207	DB	HFM207-BS	SMB-S	FMOSU03N80	TO-252	FM2200-MS	SOD-123S		
KBP210G	KBP			FMOSD03N90	TO-251	FM2200-S	SMA-S		
GBP2M	GBP			FMOSU03N90	TO-252	FM2200-HST	SMA-HST		
						FM2200-BS	SMB-S		


KBP


KBPC-3


SMB-S


TO-251


TO-252


SMA-S


SMC


TO-263


TO-220AB



OUTPUT: 24V 50W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 50		Vout(V)= 24		Iout(A)= 2.1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode		 KBP  KBPC-3  SMB-S  TO-251  TO-252  SMA-S  SMC  TO-263  TO-220AB	
Vr > 813	Vr > 813	Vds > 813	Vr > 156						
Io > 1.98	Io -	Id > 1.98	Io > 2.50						
Ipk > 3.10	Ipk -	Ipk > 3.10	Ipk > 8.68						
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
KBP310G	KBP	HFM207-S	SMA-S	FMOSD04N80	TO-251	FM3200-AS	SMA-S		
BR310	KBP-3	HFM207-BS	SMB-S	FMOSU04N80	TO-252				
				FMOSD04N90	TO-251				
				FMOSU04N90	TO-252				



OUTPUT: 24V 75W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 75		Vout(V)= 24		Iout(A)= 3.1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr >	813	Vr >	813	Vds >	813	Vr >	156		
Io >	2.97	Io	-	Id >	2.97	Io >	3.75		
Ipk >	4.65	Ipk	-	Ipk >	4.65	Ipk >	13.01		
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
KBP310G	KBP	HFM207-S	SMA-S	FMOSD05N80	TO-251	FM5200-AS	SMA-S		
BR310	KBP-3	HFM207-BS	SMB-S	FMOSU05N80	TO-252	FM5200-T7B	TO-277B		
				FMOSD05N90	TO-251	SKFM5200Y-D	TO-252		
				FMOSU05N90	TO-252				


KBP


KBPC-3


SMB-S


TO-251

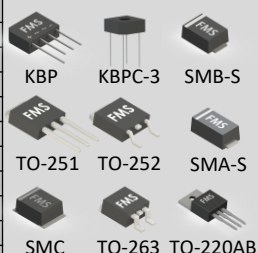

TO-252


SMA-S


SMC


TO-263


TO-220AB

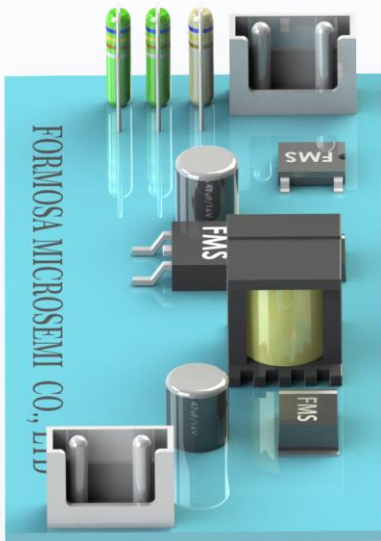


OUTPUT: 24V 100W

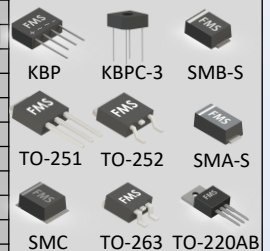
AC in(min)= 85		AC in(max)= 264		Pout(W)= 100		Vout(V)= 24		Iout(A)= 4.2	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 156			
Io > 3.97		Io -		Id > 3.97		Io > 5.00			
Ipk > 6.20		Ipk -		Ipk > 6.20		Ipk > 17.35			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU4M	GBU	HFM307-S	SMA-S	FMOSD06N80	TO-251	FM5200-AS	SMA-S		
KBU410	KBU	HFM307-BS	SMB-S	FMOSU06N80	TO-252	FM5200-T7B	TO-277B		
GBL4M	GBL			FMOSD06N90	TO-251	SKFM5200Y-D	TO-252		
GBJ4M	4GBJ			FMOSU06N90	TO-252				
									
									

OUTPUT: 24V 150W

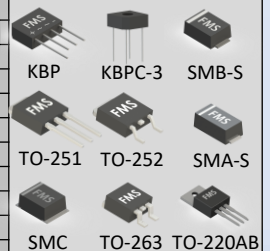
AC in(min)= 85		AC in(max)= 264		Pout(W)= 150		Vout(V)= 24		Iout(A)= 6.3	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 156			
Io > 5.95		Io -		Id > 5.95		Io > 7.50			
Ipk > 9.30		Ipk -		Ipk > 9.30		Ipk > 26.03			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU6M	GBU	HFM307-S	SMA-S	FMOSPF10N80	TO-263	FM10200-T3	SMC-T3		
BR610	KBPC-6	HFM307-BS	SMB-S	FMOSP10N80	TO-220	FM10200-T3	SMC-T3		
4GBJ6M	4GBJ	HFM307	SMC	FMOSPF10N90A	TO-263	FM8200-T7B	TO-277B		
				FMOSPF10N90B	TO-263	SKFM8200Y-D	TO-252		
									
									


OUTPUT: 48V 50~200W

OUTPUT: 48V 50W
OUTPUT: 48V 75W
OUTPUT: 48V 100W
OUTPUT: 48V 125W
OUTPUT: 48V 150W
OUTPUT: 48V 175W
OUTPUT: 48V 200W
OUTPUT: 48V 50W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 50		Vout(V)= 48		Iout(A)= 1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 1.98		Io -		Id > 1.98		Io > 1.25			
Ipk > 3.04		Ipk -		Ipk > 3.04		Ipk > 4.34			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
DF210	DF	HFM107-MS	SOD-123	FMOSD03N80	TO-251	MBR10L300CT	TO-220AB		
DB207	DB	HFM107-S	SMA-S	FMOSU03N80	TO-252	MBR10L300FCT	ITO-220AB		
KBP210G	KBP			FMOSD03N90	TO-251				
GBP2M	GBP			FMOSU03N90	TO-252				


OUTPUT: 48V 75W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 75		Vout(V)= 48		Iout(A)= 1.6	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 2.97		Io -		Id > 2.97		Io > 1.88			
Ipk > 4.56		Ipk -		Ipk > 4.56		Ipk > 6.51			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
KBP310G	KBP	HFM207-MS	SOD-123	FMOSD05N80	TO-251	MBR10L300CT	TO-220AB		
BR310	KBP-3	HFM207-S	SMA-S	FMOSU05N80	TO-252	MBR10L300FCT	ITO-220AB		
				FMOSD05N90	TO-251				
				FMOSU05N90	TO-252				



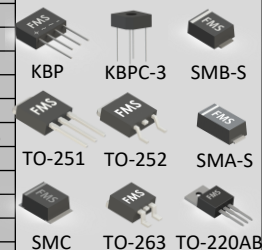
OUTPUT: 48V 100W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 100		Vout(V)= 48		Iout(A)= 2.1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 3.97		Io -		Id > 3.97		Io > 2.50			
Ipk > 6.07		Ipk -		Ipk > 6.07		Ipk > 8.68			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU4M	GBU	HFM307	SMC	FMOSD06N80	TO-251	MBR10L300CT	TO-220AB		
KBU410	KBU	HFM307-BS	SMB-S	FMOSU06N80	TO-252	MBR10L300FCT	ITO-220AB		
GBL4M	GBL	HFM307-AS	SMA-S	FMOSD06N90	TO-251				
GBJ4M	4GBJ			FMOSU06N90	TO-252				



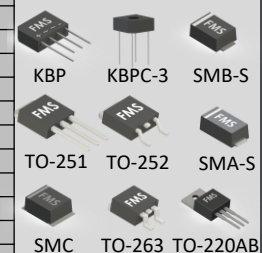
OUTPUT: 48V 125W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 125		Vout(V)= 48		Iout(A)= 2.6	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 4.96		Io -		Id > 4.96		Io > 3.13			
Ipk > 7.59		Ipk -		Ipk > 7.59		Ipk > 10.85			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU6M	GBU	HFM307	SMC	FMOSP08N80A	TO-220AB	MBR10L300CT	TO-220AB		
BR610	KBPC-6	HFM307-BS	SMB-S	FMOSPFA08N80A	TO-263	MBR10L300FCT	ITO-220AB		
4GBJ6M	4GBJ	HFM307-AS	SMA-S	FMOSP08N90	TO-220AB				
				FMOSPFA08N90	TO-263				



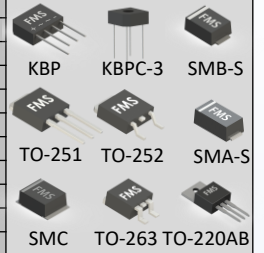
OUTPUT: 48V 150W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 150		Vout(V)= 48		Iout(A)= 3.1	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 5.95		Io -		Id > 5.95		Io > 3.75			
Ipk > 9.11		Ipk -		Ipk > 9.11		Ipk > 13.01			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU6M	GBU	HFM307	SMC	FMOSPF10N80	TO-263	MBR10L300CT	TO-220AB		
BR610	KBPC-6	HFM307-BS	SMB-S	FMOSP10N80	TO-220	MBR10L300FCT	ITO-220AB		
4GBJ6M	4GBJ	HFM307-AS	SMA-S	FMOSPF10N90A	TO-263				
				FMOSPF10N90B	TO-263				



OUTPUT: 48V 175W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 175		Vout(V)= 48		Iout(A)= 3.6	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 6.94		Io -		Id > 6.94		Io > 4.38			
Ipk > 10.63		Ipk -		Ipk > 10.63		Ipk > 15.18			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU8M	GBU	HFM307	SMC	FMOSPF10N80	TO-263	MBR10L300CT	TO-220AB		
GBJ8M	GBJ	HFM307-BS	SMB-S	FMOSP10N80	TO-220	MBR10L300FCT	TO-220AB		
BR810	KBPC-8	HFM307-AS	SMA-S	FMOSPF10N90A	TO-263				
KBU810	KBU			FMOSPF10N90B	TO-263				



OUTPUT: 48V 200W

AC in(min)= 85		AC in(max)= 264		Pout(W)= 200		Vout(V)= 48		Iout(A)= 4.2	Duty= 0.42
整流器		Snubber Diode		MOSFET		SKY Diode			
Vr > 813		Vr > 813		Vds > 813		Vr > 307			
Io > 7.93		Io -		Id > 7.93		Io > 5.00			
Ipk > 12.15		Ipk -		Ipk > 12.15		Ipk > 17.35			
Part Num	Package	Part Num	Package	Part Num	Package	Part Num	Package		
GBU8M	GBU	HFM307	SMC	FMOSP13NM80	TO-263	MBR10L300CT	TO-220AB		
GBJ8M	GBJ	HFM307-BS	SMB-S	FMOSP13NM90	TO-263	MBR10L300FCT	TO-220AB		
BR810	KBPC-8	HFM307-AS	SMA-S						
KBU810	KBU								

