



Kyocera AVX Rectifier Diodes & Power Modules

**ACCELERATING
INNOVATION**



Fast Recovery and General Rectifier Diode Portfolio



FAST RECOVERY

GENERAL

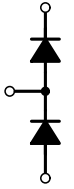
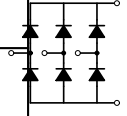
	KCF25A20	KCF25A40	KSF30A40B	KSF60F60B	MC03FA40	ME01FA20	ME01FA40	ME01FA60	MPP4RA60	MPP5FA20	ME01DA40
	TO-247	TO-247	TO-247	TO-247	nSMC_FL	SOD-128	SOD-128	SOD-128	SOD-123FL	SOD-123FL	SOD-128
Temperature	-40 to +150°C	-40 to +150°C	-40 to +150°C	-55 to +175°C	-55 to +150°C	-55 to +150°C	-55 to +150°C	-55 to +150°C	-55 to +150°C	-55 to +150°C	-55 to +150°C
Circuit	Common Cathode	Common Cathode	Single	Single	Single	Single	Single	Single	Single	Single	-
V_{RRM}	200 V	400 V	400 V	600 V	400 V	200 V	400 V	600 V	600 V	200 V	400 V
I_O	25 A	25 A	30 A	60 A	3 A	1 A	1 A	1 A	0.4 A	0.5 A	1 A
I_{FSM}	150 A	200 A	400 A	600 A	45 A	20 A	20 A	20 A	20 A	20 A	25 A
I_R	0.025 mA	0.05 mA	0.05 mA	0.05 mA	0.01 mA	0.01 mA	0.01 mA	0.01 mA	0.01 mA	0.01 mA	0.01 mA
V_{FM}	0.98 V	1.25 V	1.25 V	1.7 V	1.25 V	0.98 V	1.25 V	1.39 V	1.32 V	0.95 V	1.05 V
I_{FM}	12.5 A	12.5 A	30 A	60 A	3 A	1 A	1 A	1 A	0.4 A	0.5 A	1 A
T_{RR}	50 nS	60 nS	60 nS	85 nS	30 nS	30 nS	30 nS	80 nS	40 nS	30 nS	-

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Diode Module

Package	Size X,Y [mm]	Circuit	Rating Current [A]							
			80	100	150	200	260	320	380	700
	93×20									
	94×34									
	115×50.3									
	150×60									
	72×42									
	94×54									

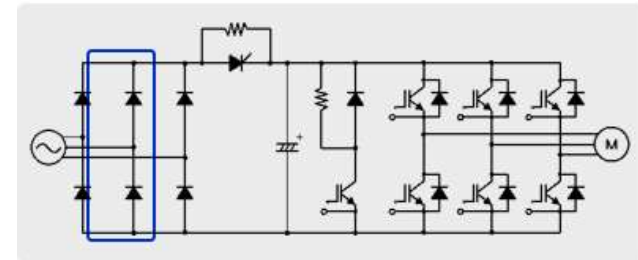
• Features

- Abundance of variation
 - W/W Standard & Unique Package
 - Variety of circuit types
- Long term Experience to the Japanese Industrial Market

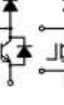
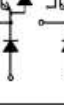
• Status

- Datasheets: [available](#)
- Samples: [available](#)
- Already mass production

• Application: Motor Drive



IGBT Module

Package	Size X,Y [mm]	Circuit	Rating Current [A]						
			50	75	100	150	200	300	400
	38x30			1250V	650V				
	94x35		650V				1200V		
	94x48					1200V		650V	
	108x62								1200V

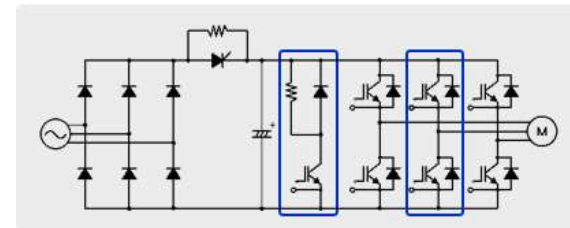
Features

- Compatible Package
- Max. Junction Temp. = 175°C

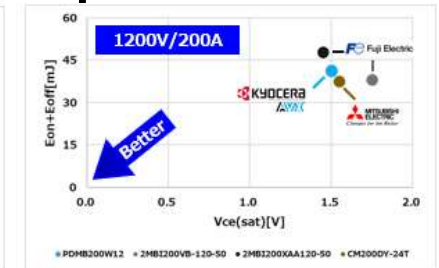
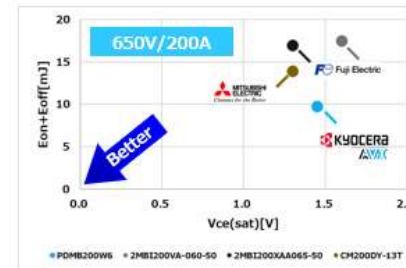
Status

- Datasheets: [available](#)
- Samples: [available](#)
- Already mass production

Application: Motor Drive



Performance Comparison



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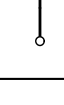
In Development

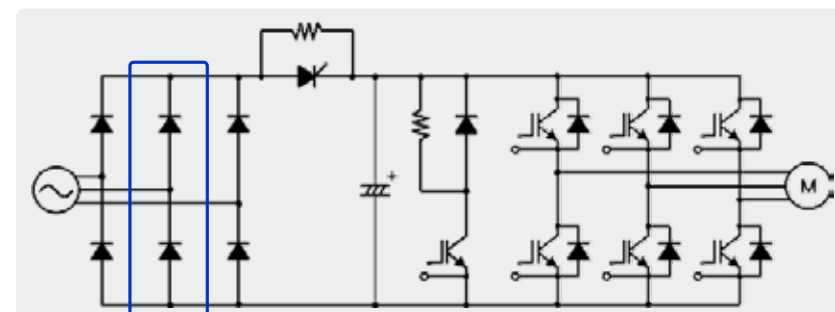


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Thyristor Module

• Thyrsitor Module

Package	Size X,Y [mm]	Circuit	Rating Current [A]							
			80	100	150	200	260	320	380	700
	93×20									
	94×34									
	115×50.3									
	150×60									



• Status

- Under development
- Datasheets: [available](#)



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Thyristor Module

Road Map

	CY24			CY25				CY26
	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q
E-81 300A 		★ WS (Sep.)		★ ES	Release (MP)			
E-80 200A 			★ WS (Nov.)		★ ES	Release (MP)		
E-79 100A 				★ WS (Jan.)		★ ES	Release (MP)	
E-82 400A 	Market Research			★ WS (Mar.)			★ ES	Release (MP)

WS : Working Sample, ES : Engineering Sample



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THANK YOU.



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