

Product Change Notice

(PCN No.: 04-03)

Customer: *All*

IXYS product type: *MUBW 4-12A6*
MUBW 10-12A6
MUBW 15-12A6

Description of change:	Part	Status	Replacement / Change
	<i>MUBW 4-12A6</i>	<i>phase out</i>	<i>no replacement</i>
	<i>MUBW 10-12A6</i>	<i>phase out</i>	<i>MUBW 15-12A6</i>
	<i>MUBW 15-12A6</i>	<i>product change</i>	<i>Change of brake IGBT, details see page 2</i>

Reason for change: *Obsolescence of IGBT die*

Identification: *By date code*

Schedule of change: *End of 2003*

Influence on quality: *No*

Internal Reference: *-----*

In case of any question, please contact

Initiator	Title/Function	Date	e-mail
<i>A. Laschek-Enders</i>	<i>Product Marketing Manager</i>	<i>Sept. 16th 2003</i>	<i>a.laschek-enders@ixys.de</i>

IXYS Semiconductor GmbH
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Phone: +49-6206-503-0
Fax: +49-6206-503 627

Customer response:

(please fill in and return by e-mail, fax or mail within 4 weeks)

for further questions / information
please comment below

Company: _____

Name & Position: _____

Phone / Fax No.: _____

Note: **Written** response or **written** acknowledgement with statement of approval criteria, must be received within thirty (30) days of the date of this PCN or IXYS will consider this change approved.

Comments: _____

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MUBW 15-12A6

Specification of brake IGBT

Parameter		until now	after change
Ic	Tc = 25°C	13 A	18 A
	Tc = 90°C	8 A	11.5 A
Ptot	Tc = 25°C	67 W	70 W
Ices	Tc = 25°C, Vge=0V, Vce=1000V	100µA	500µA
Vcesat	Tj=25°C	3.3V max @ 5A	2.9V max @ 10A
	Tj=150°C	4.5V max ,4V max	
Eoff Eon	Tj=125°C, Vcc=600V, Rg=100Ohm	0.4mJ @ 5A	0.9mJ @ 8A
		0.8mJ @ 5A	1.3mJ @ 8A
Ciss	Vge=0V, Vce=25V, f=1Mhz	650pF	850pF
Coss		50pF	98pF
Crss		20pF	60pF
Qg	Vcc=800V, Ic=6A pulse, Vge=15V	48nC @ Ic=6A pulse	58nC @ Ic=8A pulse
Rthjc		1.55 K/W	1.5 K/W