Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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Regarding the change of names mentioned in the document, such as Mitsubishi Electric and Mitsubishi XX, to Renesas Technology Corp.

The semiconductor operations of Hitachi and Mitsubishi Electric were transferred to Renesas Technology Corporation on April 1st 2003. These operations include microcomputer, logic, analog and discrete devices, and memory chips other than DRAMs (flash memory, SRAMs etc.) Accordingly, although Mitsubishi Electric, Mitsubishi Electric Corporation, Mitsubishi Semiconductors, and other Mitsubishi brand names are mentioned in the document, these names have in fact all been changed to Renesas Technology Corp. Thank you for your understanding. Except for our corporate trademark, logo and corporate statement, no changes whatsoever have been made to the contents of the document, and these changes do not constitute any alteration to the contents of the document itself.

Note : Mitsubishi Electric will continue the business operations of high frequency & optical devices and power devices.

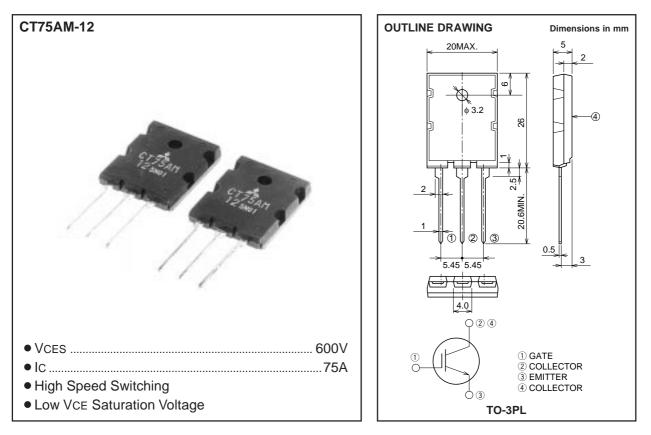
Renesas Technology Corp. Customer Support Dept. April 1, 2003



MITSUBISHI INSULATED GATE BIPOLAR TRANSISTOR

CT75AM-12

GENERAL INVERTER • UPS USE



APPLICATION

AC & DC motor controls, General purpose inverters, UPS, Power supply switching, Servo controls, etc.

MAXIMUM RATINGS (Tc = 25°C)

Symbol	Parameter	Conditions	Ratings	Unit
VCES	Collector-emitter voltage	VGE = 0V	600	V
Vges	Gate-emitter voltage	VCE = 0V	±20	V
Vgem	Peak gate-emitter voltage	VCE = 0V	±30	V
Ic	Collector current		75	A
Ісм	Collector current (Pulsed)		150	A
Pc	Maximum power dissipation		300	W
Tj	Junction temperature		-40 ~ +150	°C
Tstg	Storage temperature		-40 ~ +150	°C
	Weight	Typical value	9.8	g



Feb.1999

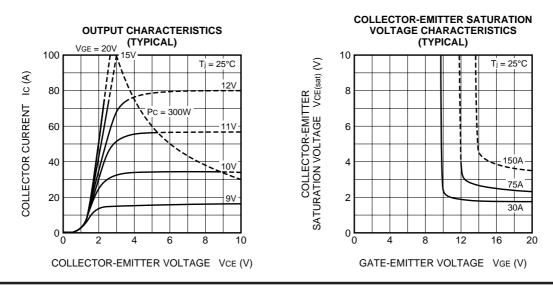
CT75AM-12

GENERAL INVERTER • UPS USE

ELECTRICAL CHARACTERISTICS (Tj = 25°C)

Symbol	Parameter	Test conditions	Limits			Linit
			Min.	Тур.	Max.	Unit
V (BR) CES	Collector-emitter breakdown voltage	IC = 1mA, VGE = 0V	600	_	—	V
IGES	Collector-emitter leakage current	$VGE = \pm 30V, VCE = 0V$	—		±0.5	μA
ICES	Gate-emitter leakage current	VCE = 600V, VGE = 0V	—		1	mA
VGE(th)	Gate-emitter threshold voltage	IC = 7.5mA, VCE = 10V	4.5	6.0	7.5	V
VCE(sat)	Collector-emitter saturation voltage	IC = 75A, VGE = 15V	_	2.5	3.0	V
Cies	Input capacitance		_	3100	_	pF
Coes	Output capacitance	VCE = 25V, VGE = 0V, f = 1MHz	_	400	_	pF
Cres	Reverse transfer capacitance		_	130	_	pF
td (on)	Turn-on delay time		_	40	_	ns
tr	Rise time	Vcc = 300V, Resistance load,	_	265	_	ns
td (off)	Turn-off delay time	IC = 75A, VGE = 15V, RGE = 10Ω	_	175	_	ns
tf	Fall time		_	245	—	ns
Rth (j-c)	Thermal resistance	Junction to case	_	_	0.42	°C/W

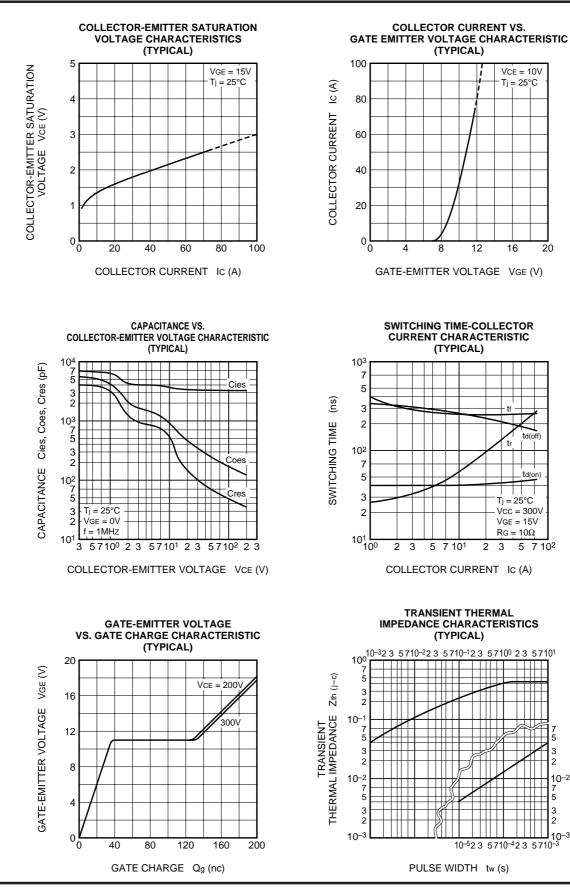
PERFORMANCE CURVES



Renesas Technology Corp.

CT75AM-12

GENERAL INVERTER • UPS USE



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