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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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RJP6085DPN

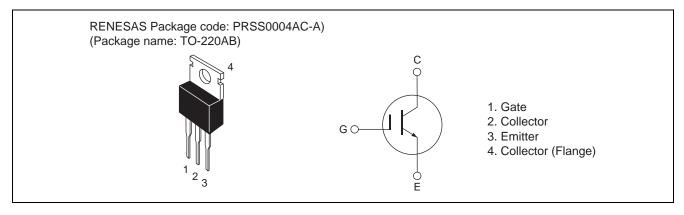
Silicon N Channel IGBT High Speed Power Switching

REJ03G1863-0100 Rev.1.00 Nov 09, 2009

Features

- High speed switching
- Low collector to emitter saturation voltage

Outline



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
ltem	Symbol	Ratings	Unit
Collector to Emitter voltage	V _{CES}	600	V
Gate to Emitter voltage	V _{GES}	±30	V
Collector current	Ι _C	40	A
Collector peak current	I _{C(peak)} Note1	80	A
Collector dissipation	P _C ^{Note2}	178.5	W
Junction to case thermal impedance	θj-c ^{Note2}	0.7	°C/W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. Pulse width limited by safe operating area.

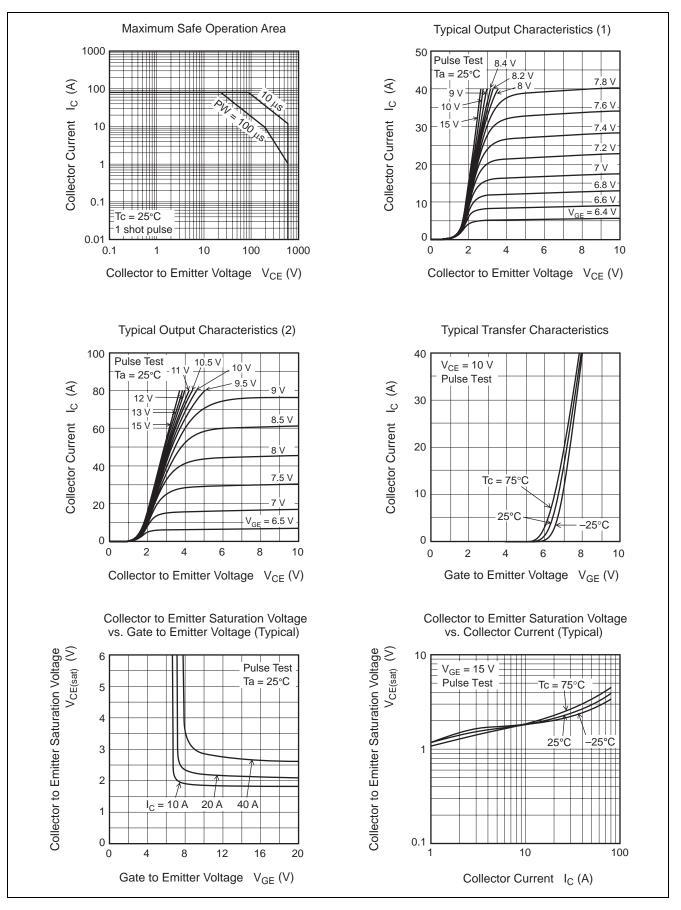
2. Value at Tc = 25°C

Electrical Characteristics

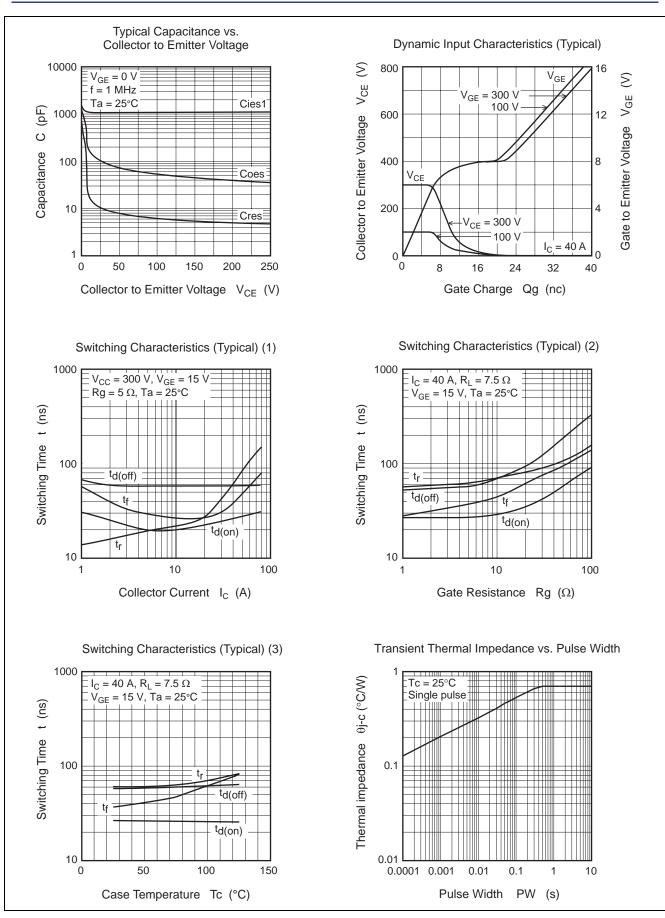
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Zero gate voltage collector current	I _{CES}	_		10	μA	$V_{CE} = 600 V, V_{GE} = 0 V$
Gate to emitter leak current	I _{GES}	—	—	±1	μA	$V_{GE} = \pm 30 \text{ V}, V_{CE} = 0 \text{ V}$
Gate to emitter cutoff voltage	V _{GE(off)}	4		6	V	$V_{CE} = 10V, I_C = 1 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}	—	2.65	3.5	V	$I_{C} = 40 \text{ A}, V_{GE} = 15 V^{Note3}$
Input capacitance	Cies	—	1150	—	pF	V _{CE} = 25V V _{GE} = 0 V f = 1MHz
Output capacitance	Coes	—	105	—	pF	
Reveres transfer capacitance	Cres	—	12	—	pF	
Switching time	t _{d(on)}	_	30	_	ns	$I_{\rm C}$ = 40 A, Resistive Load
	tr	_	60	_	ns	$V_{CC} = 300V$
	t _{d(off)}	_	60		ns	$V_{GE} = 15V$ Rg = 5 Ω
	t _f	_	40		ns	

Notes: 3. Pulse test

Main Characteristics

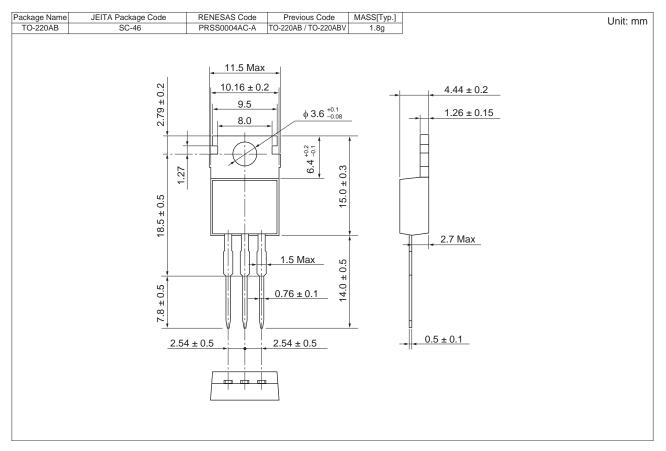


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Package Dimensions



Ordering Information

Part No.	Quantity	Shipping Container
RJP6085DPN-00-T2	600 pcs	Box (Tube)

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