Old Company Name in Catalogs and Other Documents

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



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2SC3365

Silicon NPN Triple Diffused

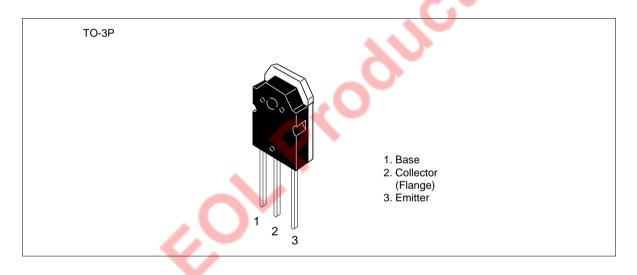


ADE-208-892 (Z) 1st. Edition September 2000

Application

High voltage, high speed and high power switching

Outline



2SC3365

Absolute Maximum Ratings (Ta = 25°C)

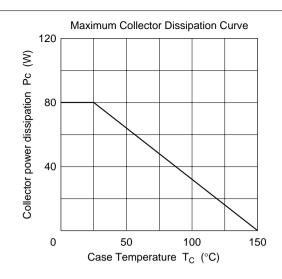
Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	500	V	
Collector to emitter voltage	V_{CEO}	400	V	
Emitter to base voltage	V_{EBO}	10	V	
Collector current	I _c	10	А	
Collector peak current	I _{C(peak)}	20	А	
Base current	I _B	5	A	
Collector power dissipation	P _c *1	80	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

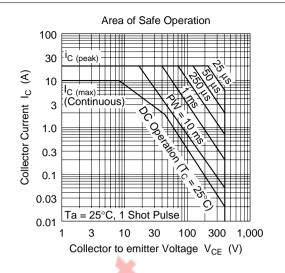
Note: 1. Value at $T_c = 25^{\circ}C$

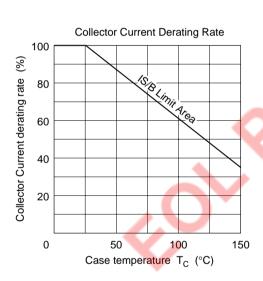
Electrical Characteristics ($Ta = 25^{\circ}C$)

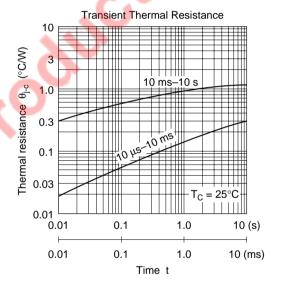
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter sustain	$V_{\text{CEO(sus)}}$	400		4	V	$I_{\rm C} = 0.2 \text{ A}, R_{\rm BE} = \infty, L = 100 \text{ mH}$
voltage	$V_{\text{CEX(sus)}}$	400	7	9	V	I_{C} = 10 A, I_{B1} = 2 A, I_{B2} = -0.6 A, V_{BE} = -5.0 V, L = 180 $\mu H,$ Clamped
Emitter to base breakdown voltage	$V_{(BR)EBO}$	10	_	_	V	$I_{\rm E} = 10 \text{ mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CBO}		_	50	μΑ	V _{CB} = 400 V, I _E = 0
	I _{CEO}		_	50	μΑ	$V_{CE} = 350 \text{ V}, R_{BE} = \infty$
DC current transfer ratio	h _{FE1}	12	_	_		$V_{CE} = 5.0 \text{ V}, I_{C} = 5 \text{ A}^{*1}$
	h _{FE2}	5	_	_		$V_{CE} = 5.0 \text{ V}, I_{C} = 10 \text{ A}^{*1}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	1.0	V	$I_{\rm C} = 5 \text{ A}, I_{\rm B} = 1 \text{ A}^{*1}$
Base to emitter saturation voltage	$V_{\text{BE}(\text{sat})}$	_	_	1.5	V	_
Turn on time	t _{on}	_	_	1.0	μs	$I_{\rm C} = 10 \text{ A}, I_{\rm B1} = -I_{\rm B2} = 2 \text{ A},$
Storage time	t _{stg}	_	_	2.5	μs	V _{cc} ≅ 150 V
Fall time	t _f	_	_	1.0	μs	

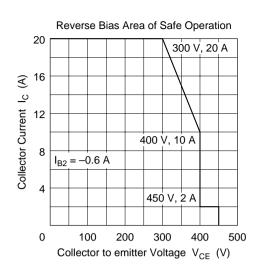
Note: 1. Pulse test

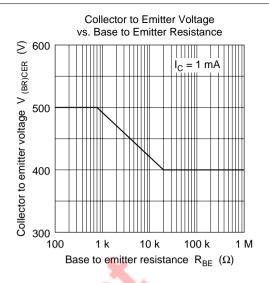


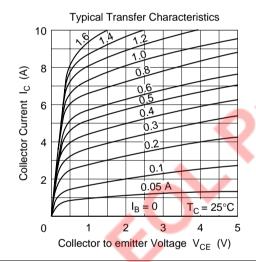


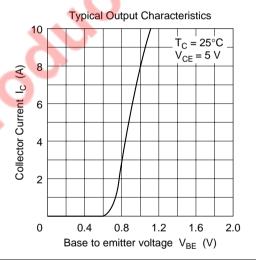


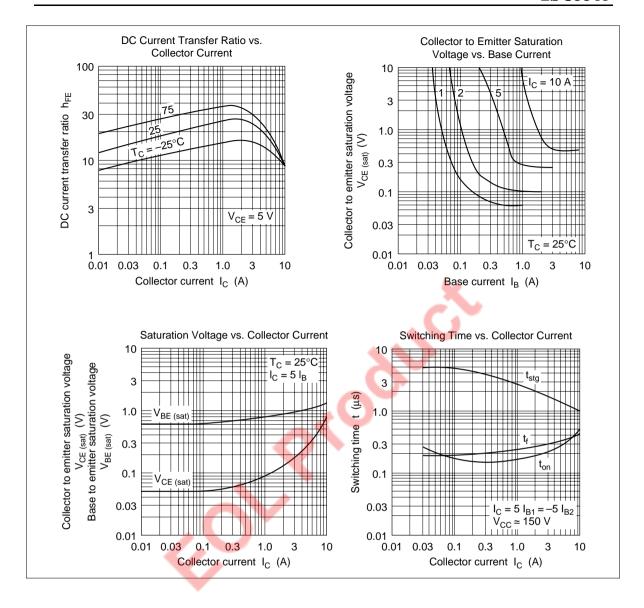


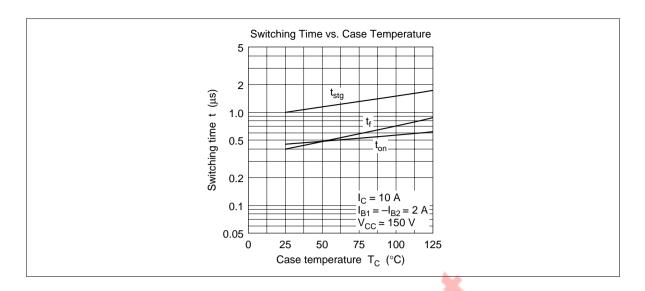












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