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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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SILICON TRANSISTOR 2SA1463

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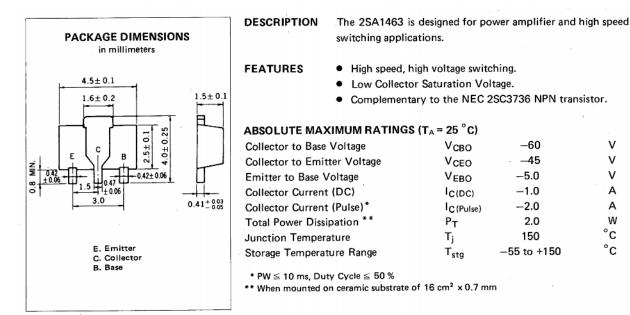
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HIGH SPEED SWITCHING PNP SILICON EPITAXIAL TRANSISTOR POWER MINI MOLD



ELECTRICAL CHARACTERISTICS (TA = 25 °C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDICTIONS
Collector Cutoff Current	ICES			-0.5	μA	$V_{CE} = -45 \text{ V}, \text{R}_{BE} = 0$
Emitter Cutoff Current	IEBO			0.5	μA	V _{EB} = -4.0 V, I _C = 0
DC Current Gain	hFE1***	60		200		V _{CE} = -10 V, I _C = -50 mA
DC Current Gain	hFE2***	60				V _{CE} = -10 V, I _C = -500 mA
Collector Saturation Voltage	VCE(sat)***		-0.26	-0.6	v	i _C = −500 mA, I _B = −50 mA
Base Saturation Voltage	VBE(sat)***		-0.98	-1.2	V	
Gain Bandwidth Product	fT	300	400		MHz	V _{CE} = -10 V, I _E = 100 mA
Output Capacitance	Cob		11	25	pF	V _{CB} = -10 V, i _E = 0, f = 1.0 MHz
Turn-on Time	ton		25	40	ns	- I _C = −500 mA - I _{B1} = −I _{B2} = −50 mA
Storage Time	tstg		46	70	ns	
Turn-off Time	toff		62	100	ns	

***Pulsed: PW \leq 350 μ s, Duty Cycle \leq 2 %

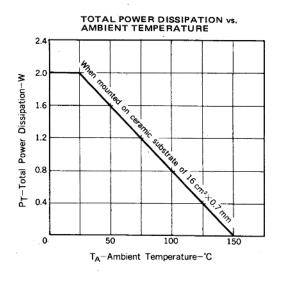
hee Classification

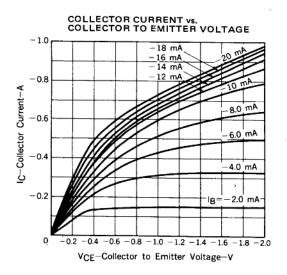
MARKING	IL.	ік
hFE1	60 to 120	100 to 200

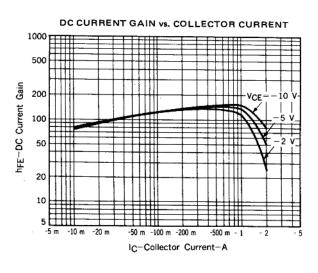
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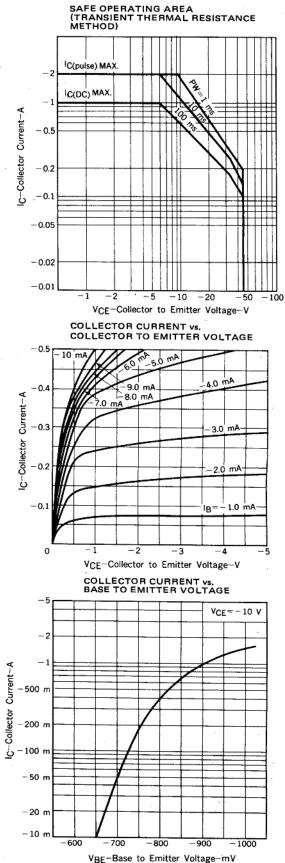
Document No. D17935EJ3V0DS00 (3rd edition) (Previous No. TC-1889A) Date Published February 2006 NS CP(K) Printed in Japan

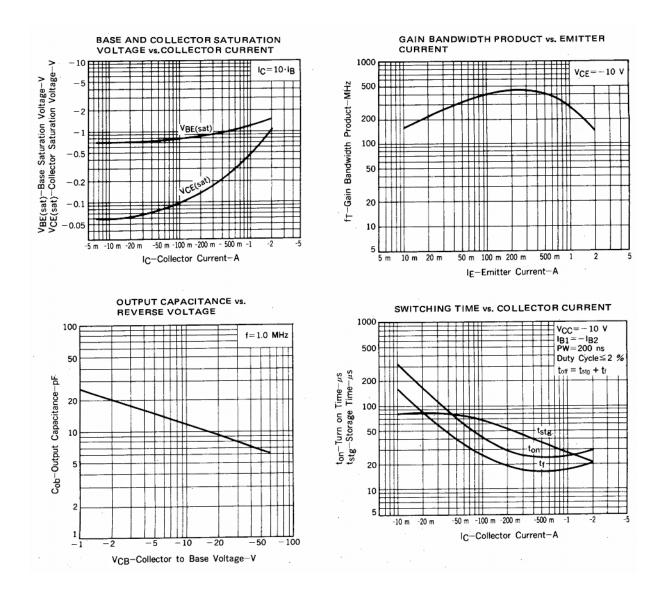
TYPICAL CHARACTERISTICS ($T_A = 25^{\circ}C$)



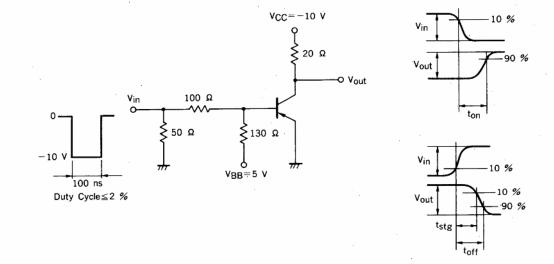








SWITCHING TIME TEST CIRCUIT



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