

PRODUCTS SST3 TYPE DTD143EC

PAGE 1/2

1. TYPE

DTD143EC

2. STRUCTURE

NPN SILICON EPITAXIAL PLANAR DIGITAL TRANSISTOR

 V_{IN}

3. APPLICATIONS

INVERTER, INTERFACE, DRIVER

4. ABSOLUTE MAXIMUM RATINGS [Ta=25°C]

SUPPLY VOLTAGE

 V_{cc} ... 50V

INPUT VOLTAGE

COLLECTOR CURRENT *

•

-10 ~ 30V

IC(max) • • • 500mA

* CHARACTERISTICS OF BUILT-IN TRANSISTOR

POWER DISSIPATION

Pd • • • 200mW

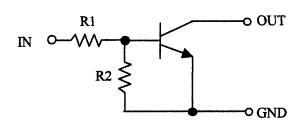
JUNCTION TEMPERATURE

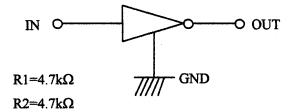
Ti • • • 150 °C

STORAGE TEMPERATURE RANGE

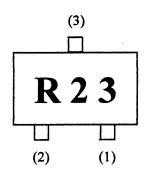
Tstg · · · -55∼150 °C

5. INTERNAL CIRCUIT





6. MARKING



" R23 " MEASNS DTD143EC.

(1) GND

(2) IN

(3) OUT

ļ	DESIGN	CHECK	APPROVAL		SPECIFICATION No. TSQ03030-D713-12
	J. Hiskimot	SJahara]		REV : 2	ROHM CO., LTD.



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TYPE DTD143EC PAGE 2/2

6. ELECTRICAL CHARACTERISTICS [Ta=25°C]

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.
D. TOU THE WOLL THAT OF	VI(off)	VCC=5V / IO=100μA	-	-	0.5V
INPUT VOLTAGE	VI(on)	VO=0.3V / IO=20mA	3.0V	_	-
OUTPUT VOLTAGE	VO(on)	IO=50mA / II=2.5mA	-	0.1V	0.3V
INPUT CURRENT	п	VI=5V	-	_	1.8mA
OUTPUT CURRENT	IO(off)	VCC=50V / VI=0V	-	_	0.5μΑ
DC CURRENT GAIN	. GI	VO=5V / IO=50mA	47	-	-
TRANSITION FREQUENCY	fT *	VCE=10V / IE=-50mA f=100MHz	-	200MHz	-
INPUT RESISTANCE	R1		3.29kΩ	4.7kΩ	6.11 k Ω
RESISTANCE RATIO	R2/R1		0.8	1.0	1.2

* CHARACTERISTICS OF BUILT-IN TRANSISTOR.

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SPECIFICATION No.: TSQ03030-D713-12

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