



## RATING CHARACTERISTIC ( CHDTA143XKGP )

### CHARACTERISTICS

T<sub>amb</sub> = 25 °C unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V <sub>I(off)</sub>	Input off voltage	I <sub>O</sub> =-100uA; V <sub>CC</sub> =-5.0V	-0.3	-	-	V
V <sub>I(on)</sub>	Input on voltage	I <sub>O</sub> =-20mA; V <sub>O</sub> =-0.3V	-	-	-2.5	V
V <sub>O(on)</sub>	Output voltage	I <sub>O</sub> =-10mA; I <sub>I</sub> =-0.5mA	-	-0.1	-0.3	V
I <sub>I</sub>	Input current	V <sub>I</sub> =-5V	-	-	-0.18	mA
I <sub>C(off)</sub>	Output current	V <sub>I</sub> =0V; V <sub>CC</sub> =-50V	-	-	-0.5	uA
h <sub>FE</sub>	DC current gain	I <sub>O</sub> =-10mA; V <sub>O</sub> =-5.0V	30	-	-	
R <sub>1</sub>	Input resistor		3.29	4.7	6.11	KΩ
R <sub>2/R<sub>1</sub></sub>	Resistor ratio		1.7	2.1	2.6	
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =-5mA, V <sub>CE</sub> =-10.0V f=100MHz	-	250	-	MHz

### Note

1.Pulse test: t<sub>p</sub>≤300uS; δ≤0.02.

## RATING CHARACTERISTIC CURVES ( CHDTA143XKGP )

### Typical Electrical Characteristics

Fig.1 Input voltage vs. output current  
(ON characteristics)

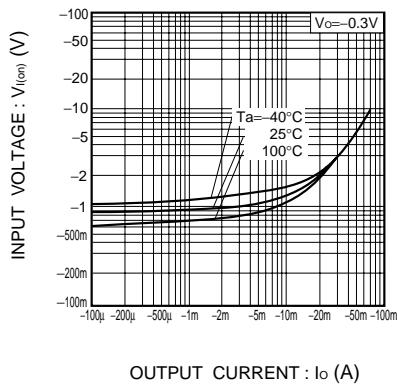


Fig.2 Output current vs. input voltage  
(OFF characteristics)

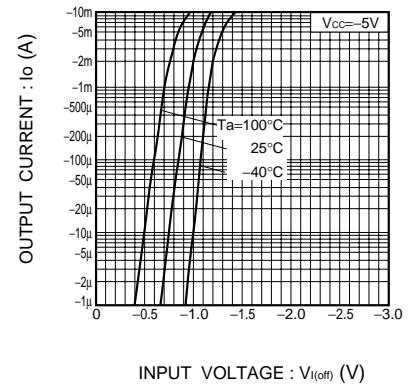


Fig.3 DC current gain vs. output current

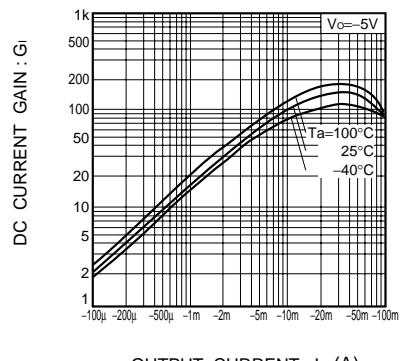


Fig.4 Output voltage vs. output current

