



## RATING CHARACTERISTIC ( CHDTA143TKPT )

### CHARACTERISTICS

$T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
BVCBO	Collector-Base breakdown voltage	$I_C = -50\mu\text{A}$	-50.0	–	–	V
BVCEO	Collector-Emitter breakdown voltage	$I_C = -1\text{mA}$	-50.0	–	–	V
BVEBO	Emitter-Base breakdown voltage	$I_E = -50\mu\text{A}$	-5.0	–	–	V
VCE(sat)	Collector-Emitter Saturation voltage	$I_C = -5\text{mA}; I_B = -0.25\text{mA}$	–	–	-0.3	V
ICBO	Collector-Base current	$V_{CB} = -50\text{V}$	–	–	-0.5	$\mu\text{A}$
IEBO	Emitter-Base current	$V_{EB} = -4\text{V}$	–	–	-0.5	$\mu\text{A}$
hFE	DC current gain	$I_C = -1\text{mA}; V_{CE} = -5.0\text{V}$	100	250	600	
R <sub>1</sub>	Input resistor		3.29	4.7	6.11	K $\Omega$
f <sub>T</sub>	Transition frequency	$I_E = 5\text{mA}, V_{CE} = -10.0\text{V}$ $f = 100\text{MHz}$	–	250	–	MHz

### Note

1. Pulse test:  $t_p \leq 300\mu\text{s}; \delta \leq 0.02$ .

## RATING CHARACTERISTIC CURVES ( CHDTA143TKPT )

### Typical Electrical Characteristics

Fig.1 DC current gain vs. collector current

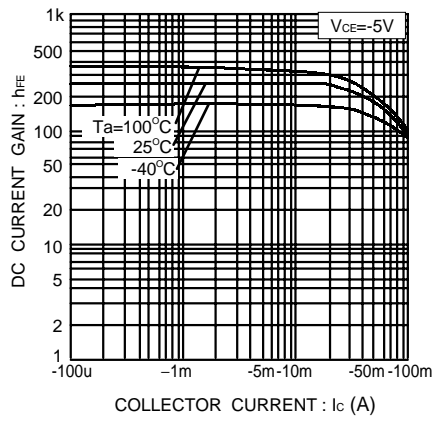


Fig.2 Collector-emitter saturation voltage vs. collector current

