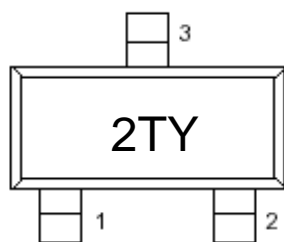


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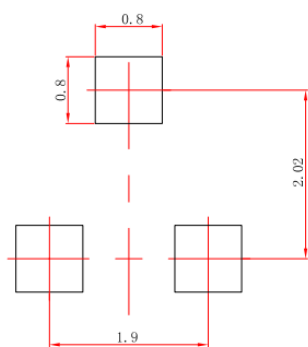
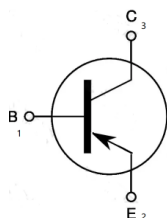
# CDTA8550-ME

## TRANSISTOR

Marking: 2TY



Top view

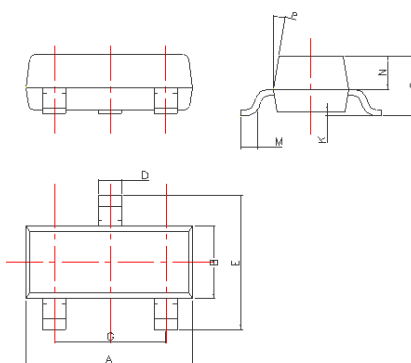


Suggested Layout

(±0.05mm)

SOT-23

Dimension



DIM	Millimeters
A	2.85~3.04
B	1.30±0.10
C	1.00±0.10
D	0.45±0.05
E	2.25~2.55
G	1.90±0.1
K	0.00-0.10
M	0.20 min
N	0.60±0.10
P	7±2°

### MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage	$V_{CEO}$	-25	Vdc
Collector-Base Voltage	$V_{CBO}$	-40	Vdc
Emitter-Base Voltage	$V_{EBO}$	-5.0	Vdc
Collector Current - Continuous	$I_C$	-500	mAdc

### THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Collector Power Dissipation	$P_c$	300	mW
Junction and Storage Temperature	$T_j$ , $T_{stg}$	150 , -55 ~150	°C

### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

Characteristic	Symbol	Test Condition	Min	Type	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=-30V, I_E=0$	--	--	-0.1	μA
Collector- Emitter Cutoff Current	$I_{CEO}$	$V_{CB}=-20V, I_E=0$	--	--	-0.1	μA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$	--	--	-0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1mA$	-25	--	--	V
Collector- Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-100\mu A$	-40	--	--	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-100\mu A$	-5	--	--	V
DC Current Gain	$h_{FE}(1)$	$V_{CE}=-1V, I_C=-100mA$	200	--	350	--
	$h_{FE}(2)$	$V_{CE}=-1V, I_C=-0.5A$	40	--	--	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$	--	--	-0.6	V
Base Emitter Voltage	$V_{BE}$	$V_{CE}=-1V, I_C=-10mA$	--	-0.8	-1.2	V
Transition Frequency	$f_T$	$V_{CE}=-5V, I_C=-10mA$	--	120	--	MHz
Collector Output Capacitance	$V_{ob}$	$V_{CB}=-10V, I_E=0,$ $f=1MHz$	--	13	30	pF

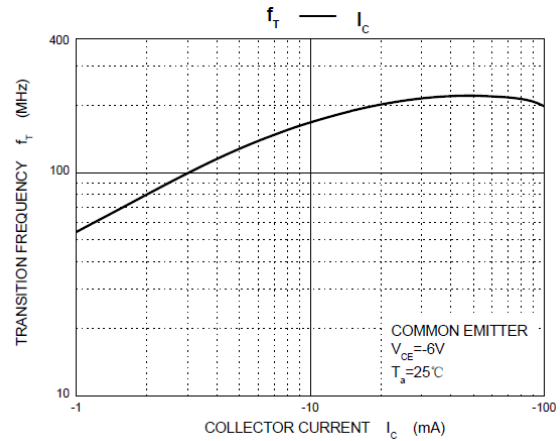
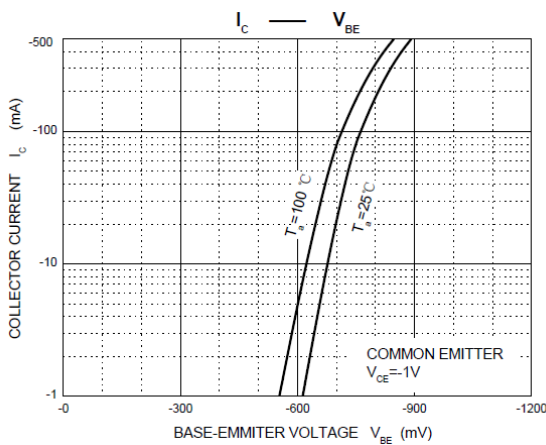
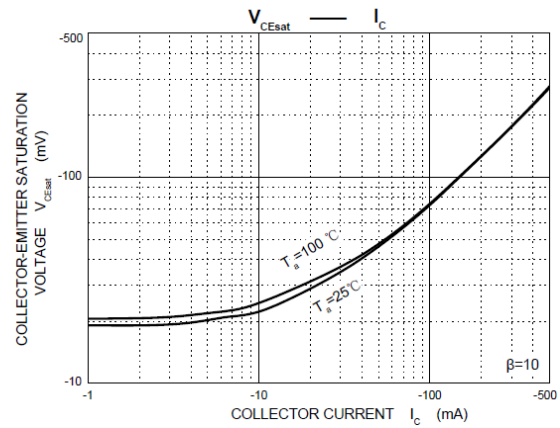
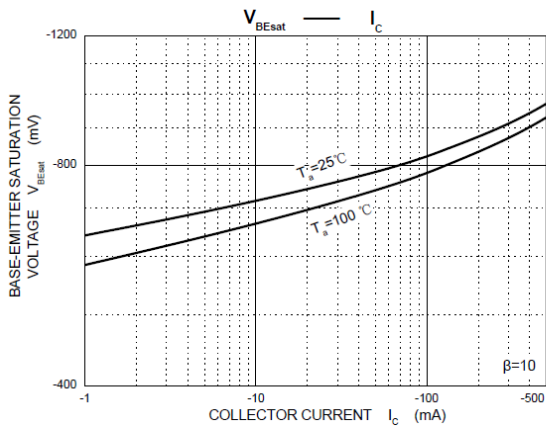
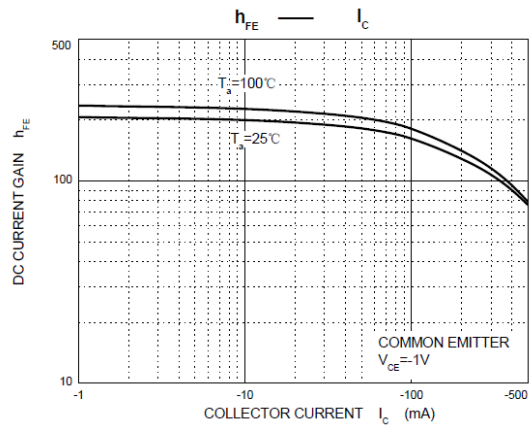
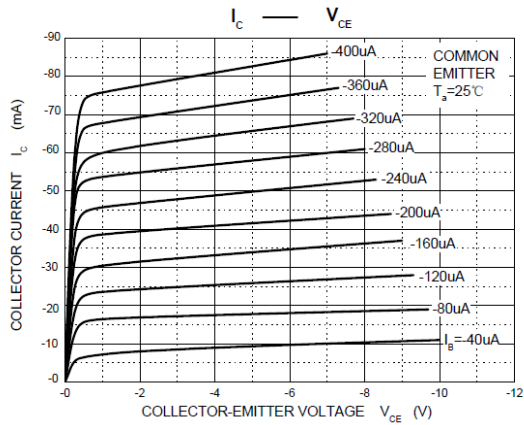
1. FR-5=1.0x0.75x0.062in.

2. Alumina=0.4x0.3x0.024in, 99.5% alumina.

3. Pulse Width ≤300μS; Duty Cycle ≤2.0%.

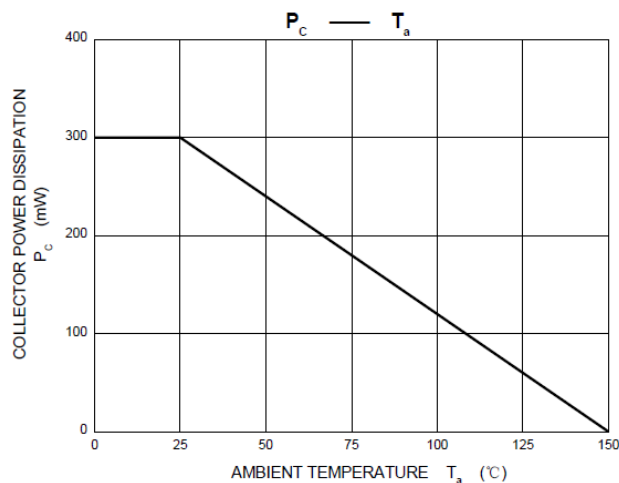
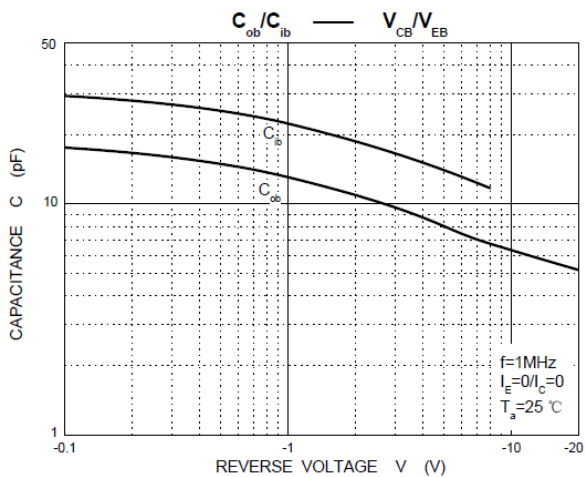
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## Typical Performance Characteristics



# Kingtronics®

# CDTA8550-ME



Note: Specifications are subject to change without notice.

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