#### 9097250 TOSHIBA (DISCRETE/OPTO)

#### SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

DT-33-19 56C 07319 2SA1329

#### HIGH CURRENT SWITCHING APPLICATIONS.

#### FEATURES:

- . Low Collector Saturation Voltage
  - :  $V_{CE(sat)}=-0.4V(Max.)$  at  $I_{C}=-6A$
- . High Speed Switching Time :  $t_{stg}=1.0\mu s(Typ.)$
- . Complementary to 2SC3346

### MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	-80	V
Collector-Emitter Voltage	VCEO	-80	v
Emitter-Base Voltage	$v_{\mathrm{EBO}}$	-6	V
Collector Current	IC	-12	A
Base Current	IB	-2	A
Collector Power Dissipation (Tc=25°C)	PC	40	W
Junction Temperature	Tj	150	°c
Storage Temperature Range	Tstg	-55~150	°c

# Unit in mm Ø36±02 10.3 MAX 1. BASE 2. COLLECTOR (HEAT SINK) 3. EMITTER JEDEC T0-220AB EIAJ SC-46

TOSHIBA Mounting Kit No. AC75

2-10A1A

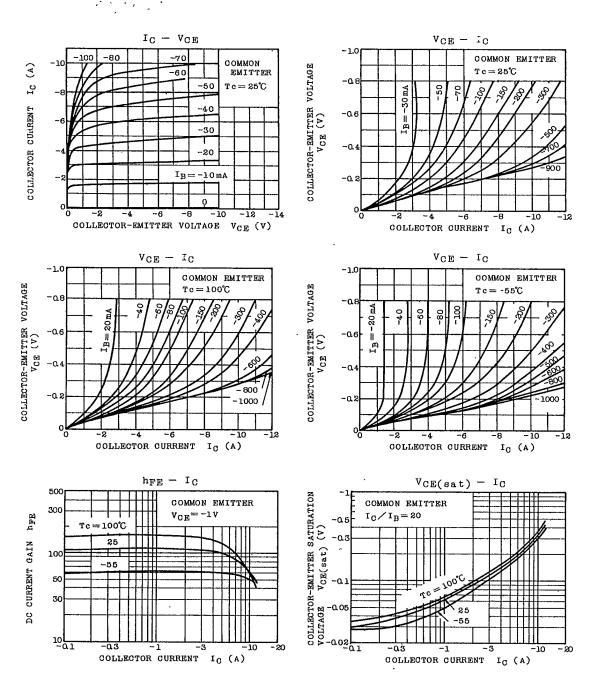
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ELECTRICAL CHARACTERISTICS (Ta=25°C)			Weight: 1.9g					
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current		тсво	V <sub>CB</sub> =-80V, I <sub>E</sub> =0		-	-10	μA	
Emitter Cut-off Current		IEBO	V <sub>EB</sub> =-6V, I <sub>C</sub> =0		-	-10	μA	
Collector-Emitter Breakdown Voltage		V(BR)CEO	I <sub>C</sub> =-50mA, I <sub>B</sub> =0	-80	-	-	V	
DC Current Gain		hFE(1) (Note)	V <sub>CE</sub> =-1V, I <sub>C</sub> =-1A	70	_	240		
		h <sub>FE</sub> (2)	V <sub>CE</sub> =-1V, I <sub>C</sub> =-6A	40		-		
Saturation Voltage	Col	lector-Emitter	V <sub>CE(sat)</sub>	I <sub>C</sub> =-6A, I <sub>B</sub> =-0.3A	_	-0.2	-0.4	v
	Base-Emitter		VBE(sat)	I <sub>C</sub> =-6A, I <sub>B</sub> =-0.3A		-0.9	-1.2	
Transition Frequency		fT	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A	-	50	-	MHz	
Collector Output Capacitance		Cob	$v_{CB}$ =-10V, $i_{E}$ =0, $i_{E}$ =1MHz		400		pF	
Switching Time		Turn-on Time	ton	20μ <sub>8</sub> INPUT I <sub>B2</sub> OUTPUT		0.3		
		Storage Time	t <sub>stg</sub>	IBI IBS IBI I	_	1.0	_	μS
		Fall Time	tf	-I <sub>B1</sub> =I <sub>B2</sub> =0.3 A V <sub>CC</sub> =-30V DUTY CYCLE≤1%	_	0.5	-	

Note:  $h_{FE(1)}$  Classification 0:  $70 \sim 140$ ,  $Y: 120 \sim 240$ 

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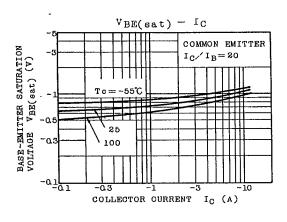
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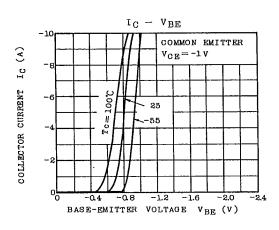


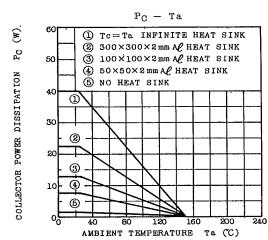
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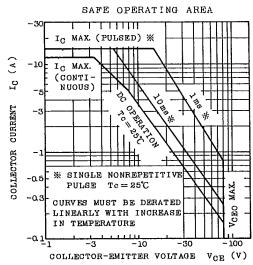
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2SA1329









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