

2SB673 2SB674 2SB675

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)
(DARLINGTON POWER)

9097250 TOSHIBA (DISCRETE/OPTO)

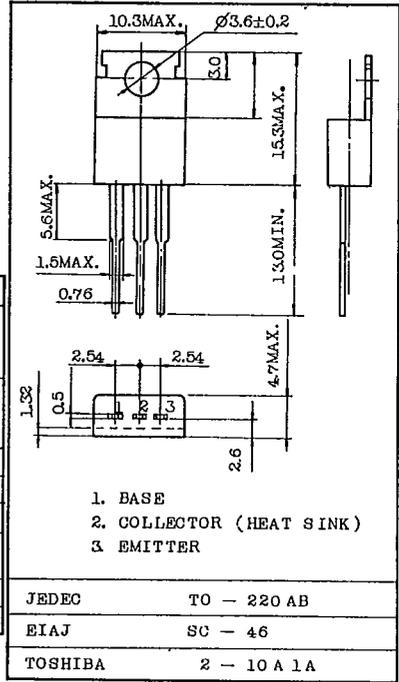
56C 07336 D T-33-1

HIGH POWER SWITCHING APPLICATIONS.
HAMMER DRIVE, PULSE MOTOR DRIVE APPLICATIONS.

INDUSTRIAL APPLICATIONS
Unit in mm

FEATURES:

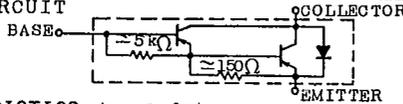
- High DC Current Gain : $h_{FE}=2000(\text{Min.}) (V_{CE}=-3V, I_C=-3A)$
- Low Saturation Voltage : $V_{CE(\text{sat})}=-1.5V(\text{Max.}) (I_C=-3A)$
- Complementary to 2SD633, 2SD634 and 2SD635.



MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	2SB673	-100	V
	2SB674	-80	
	2SB675	-60	
Collector-Emmitter Voltage	2SB673	-100	V
	2SB674	-80	
	2SB675	-60	
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-7	A
Base Current	I_B	-0.2	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	40	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

EQUIVALENT CIRCUIT

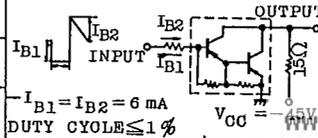


JEDEC TO - 220 AB
EIAJ SC - 46
TOSHIBA 2 - 10 A 1 A

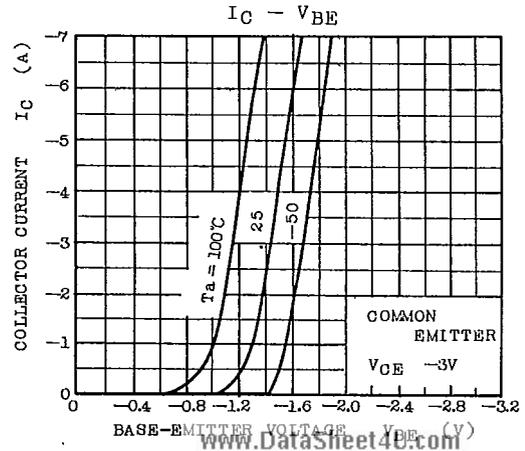
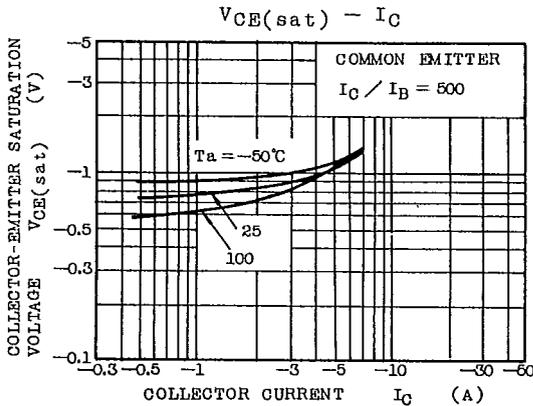
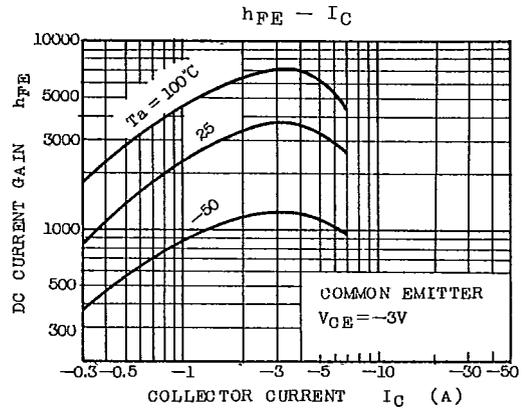
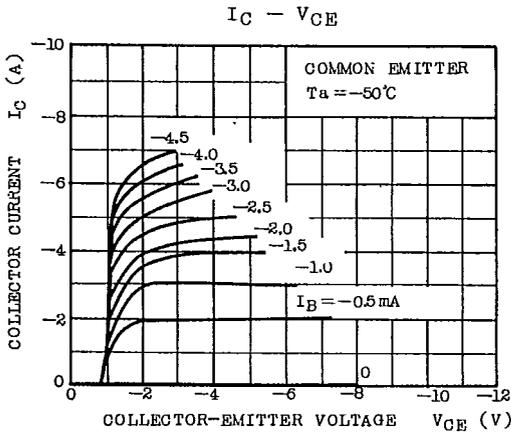
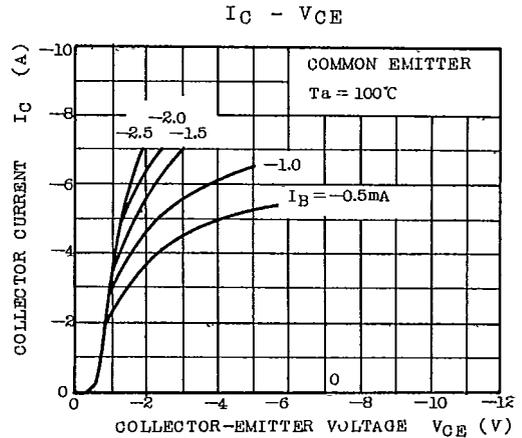
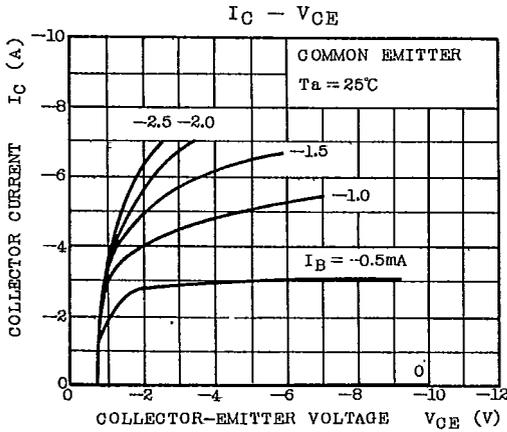
Mounting Kit No. AC75
Weight : 1.9g

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-100V, I_E=0$	-	-	-100	μA
		$V_{CB}=-80V, I_E=0$	-	-	-100	
		$V_{CB}=-60V, I_E=0$	-	-	-100	
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-4.0	mA
Collector-Emmitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-50\text{mA}, I_B=0$	-100	-	-	V
			-80	-	-	
			-60	-	-	
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-3V, I_C=-3A$	2000	-	15000	
	$h_{FE(2)}$	$V_{CE}=-3V, I_C=-7A$	1000	-	-	
Collector-Emmitter Saturation Voltage	$V_{CE(\text{sat})1}$	$I_C=-3A, I_B=-6\text{mA}$	-	-0.95	-1.5	V
	$V_{CE(\text{sat})2}$	$I_C=-7A, I_B=-14\text{mA}$	-	-1.3	-2.0	
Base-Emmitter Saturation Voltage	$V_{BE(\text{sat})}$	$I_C=-3A, I_B=-6\text{mA}$	-	-1.55	-2.5	V
Switching Time	Turn-on Time	t_{on}	-	0.8	-	μs
	Storage Time	t_{stg}	-	2.0	-	
	Fall Time	t_f	-	-	-	

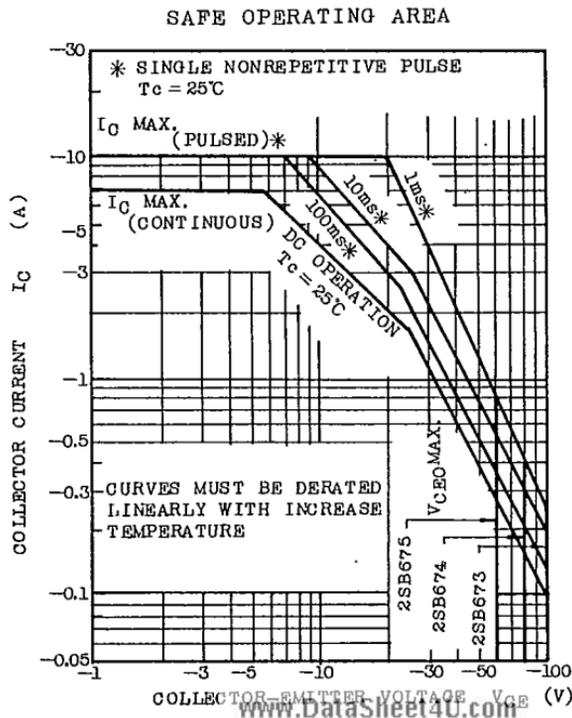
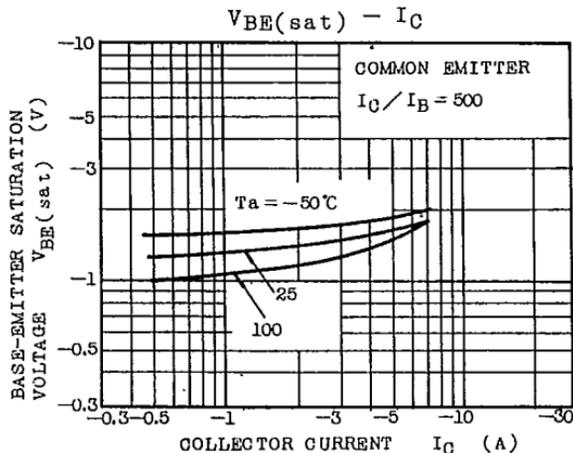


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