

# 2SC1624 2SC1625

SILICON NPN PLANAR TYPE

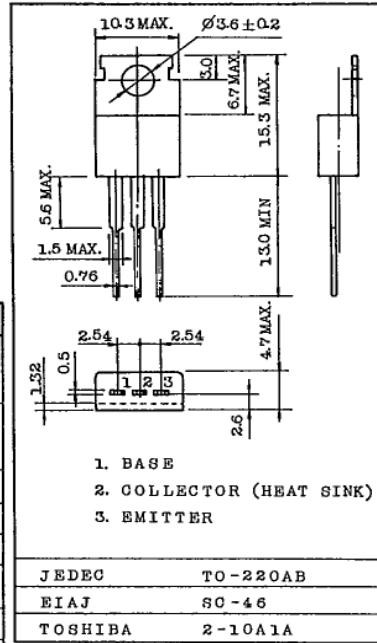
9097250 TOSHIBA (DISCRETE/OPTO)

56C 07453 D 7-33-07  
Unit in mm

MEDIUM POWER AMPLIFIER APPLICATIONS.  
DRIVER STAGE AMPLIFIER APPLICATIONS.

**FEATURES:**

- High Breakdown Voltage :  $V_{CEO}=120V$  (2SC1624)
- Complementary to 2SA814 and 2SA815.



**MAXIMUM RATINGS (Ta=25°C)**

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	2SC1624	$V_{CBO}$	120	V
	2SC1625		100	
Collector-Emitter Voltage	2SC1624	$V_{CEO}$	120	V
	2SC1625		100	
Emitter-Base Voltage		$V_{EBO}$	5	V
Collector Current		$I_C$	1	A
Emitter Current		$I_E$	-1	A
Collector Power Dissipation (Tc=25°C)		$P_C$	15	W
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55~150	°C

Mounting Kit No. AC75  
Weight : 1.9g

**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB}=50V, I_E=0$	-	-	1.0	$\mu A$
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	1.0	$\mu A$
Collector-Emitter Breakdown Voltage	2SC1624	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	120	-	-	V
	2SC1625			100	-	-	
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)		$V_{CE}=5V, I_C=150mA$	70	-	240	
	$h_{FE(2)}$			$V_{CE}=5V, I_C=500mA$	40	-	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	0.5	V
Base-Emitter Voltage		$V_{BE}$	$V_{CE}=5V, I_C=500mA$	-	-	1.0	V
Transition Frequency		$f_T$	$V_{CE}=5V, I_C=150mA$	10	30	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10V, I_E=0, f=1 MHz$	-	20	-	pF

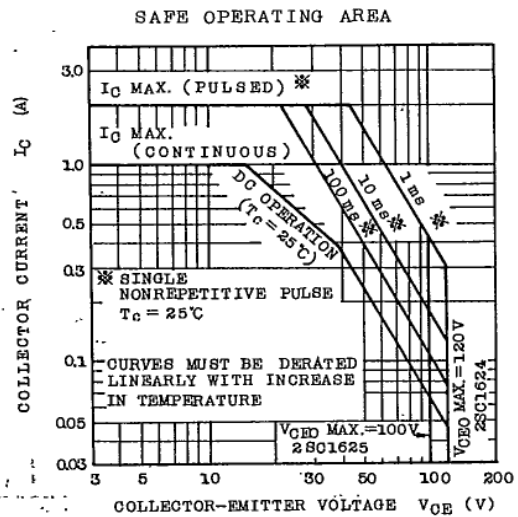
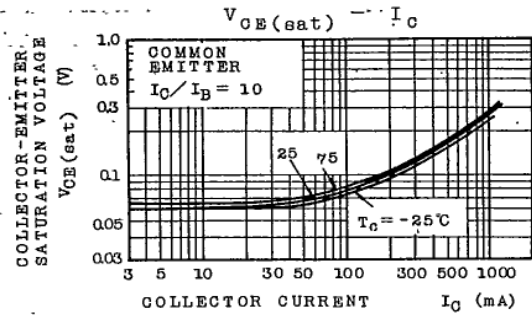
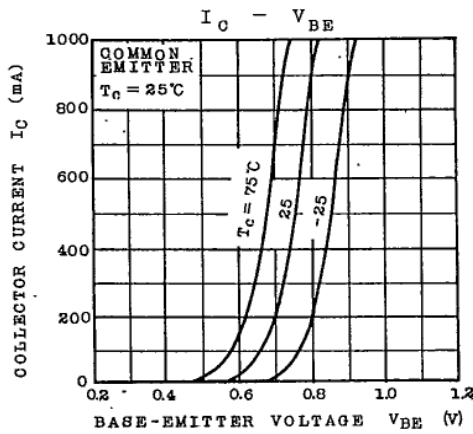
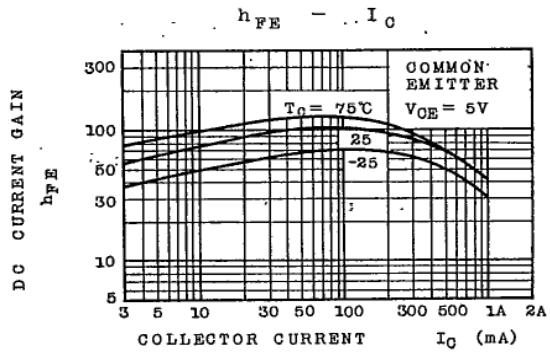
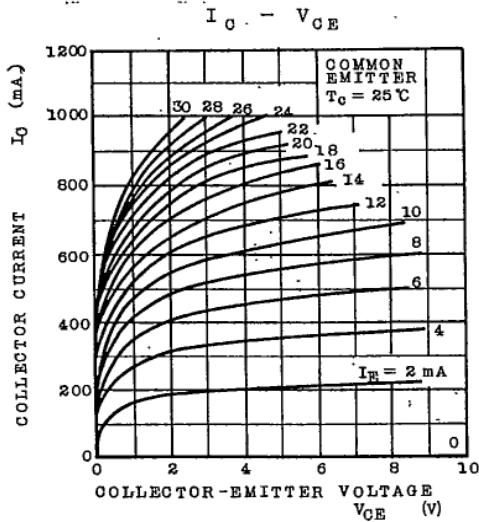
Note :  $h_{FE(1)}$  Classification 0 : 70~140, Y : 120~240

TOSHIBA CORPORATION

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