

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07793 D T-33-29

**2SD799**SILICON NPN TRIPLE DIFFUSED TYPE  
(DARLINGTON POWER)

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw

## INDUSTRIAL APPLICATIONS

Unit in mm

IGNITER APPLICATIONS.

HIGH VOLTAGE SWITCHING APPLICATIONS.

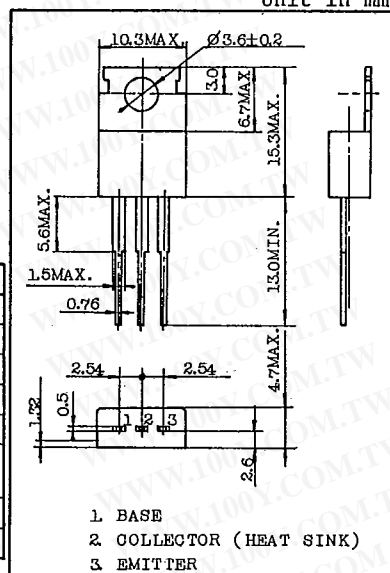
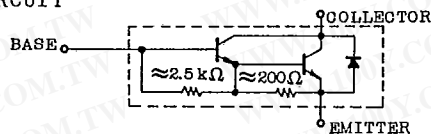
## FEATURES:

- High DC Current Gain :  $h_{FE}=600(\text{Min.})(V_{CE}=2V, I_C=2A)$
- Monolithic Construction with Built-In Base-Emitter Shunt Resistor.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	600	V
Collector-Emitter Voltage	$V_{CEO}$	400	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	6	A
Base Current	$I_B$	1	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )	$P_C$	30	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 - 10A 1A

Mounting Kit No. AC75

Weight : 1.9g

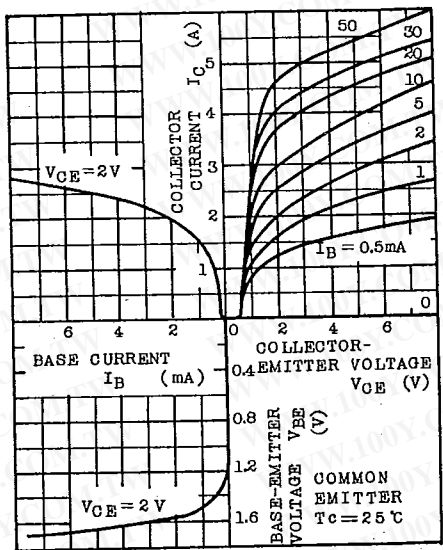
ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB}=600V, I_E=0$	-	-	0.5	mA
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	3	mA
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	400	-	-	V
DC Current Gain		$h_{FE(1)}$	$V_{CE}=2V, I_C=2A$	600	-	-	
		$h_{FE(2)}$	$V_{CE}=2V, I_C=4A$	100	-	-	
Collector-Emitter Saturaton Voltage		$V_{CE(sat)}$	$I_C=4A, I_B=0.04A$	-	-	2.0	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=4A, I_B=0.04A$	-	-	2.5	V
Emitter-Collector Forward Voltage		$V_{ECF}$	$I_E=4A, I_B=0$	-	-	3.0	V
Collector Output Capacitance		$C_{ob}$	$V_{CB}=50V, I_E=0, f=1MHz$	-	35	-	pF
Switching Time	Turn-on Time	$t_{on}$		-	1	-	µs
	Storage Time	$t_{stg}$		-	8	-	
	Fall Time	$t_f$		-	5	-	

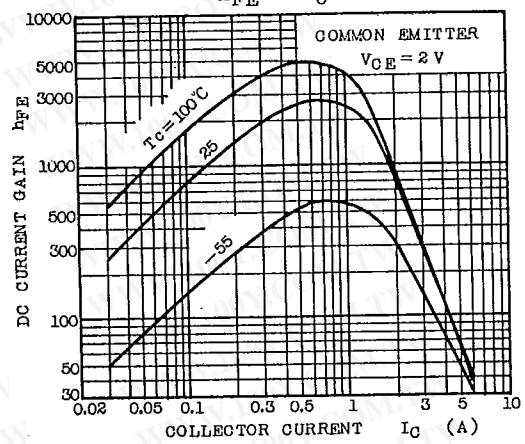
TOSHIBA CORPORATION

**2SD799**

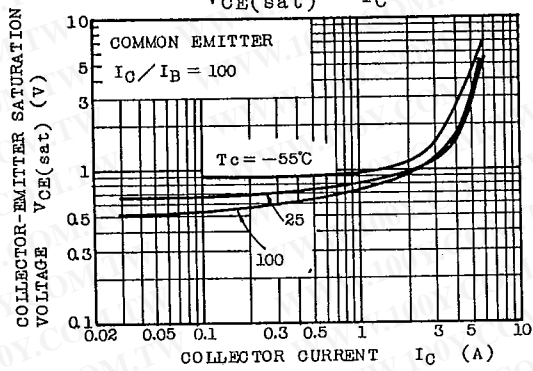
STATIC CHARACTERISTICS



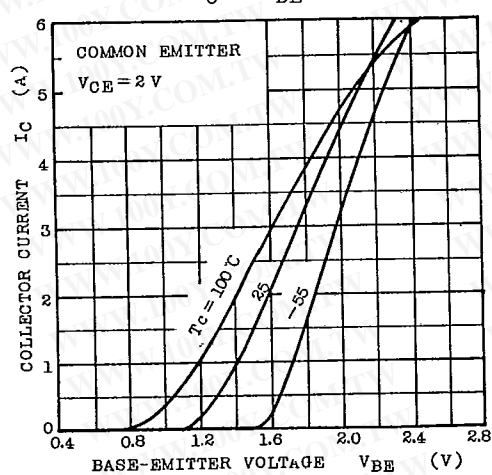
$h_{FE} - I_C$



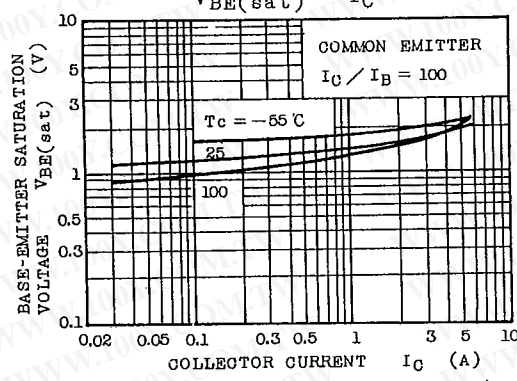
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$

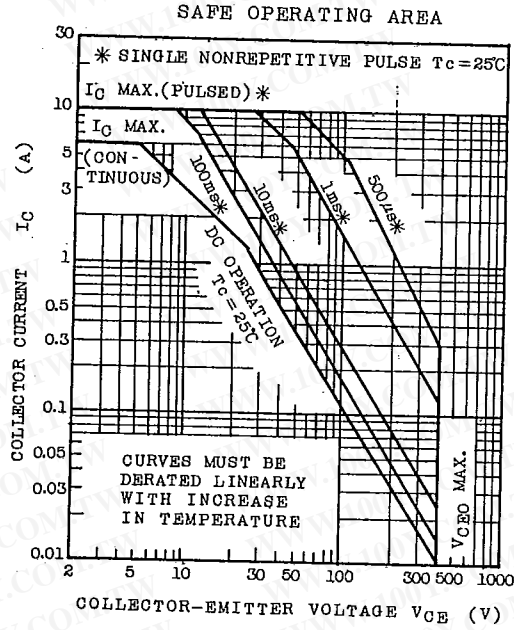
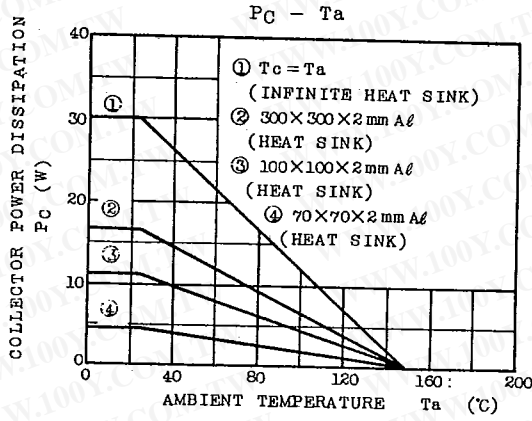


$V_{BE(sat)} - I_C$



TOSHIBA CORPORATION

**2SD799**



勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)