

INDUSTRIAL APPLICATIONS

Unit in mm

POWER AMPLIFIER APPLICATIONS.

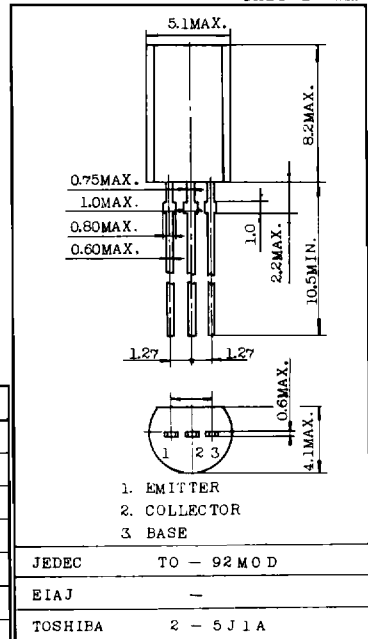
POWER SWITCHING APPLICATIONS.

FEATURES:

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.5V$ (Max.) ($I_C = -1A$)
- High Speed Switching Time : $t_{stg} = 1.0\mu s$ (Typ.)
- Complementary to 2SC2655.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-2	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$



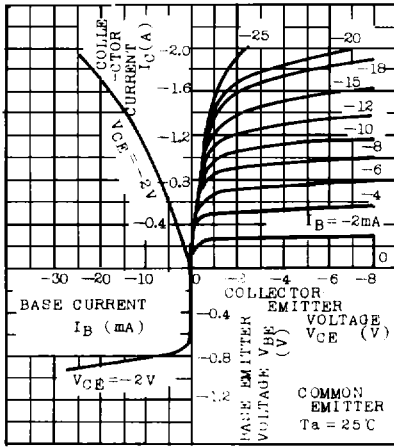
Weight : 0.36g

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

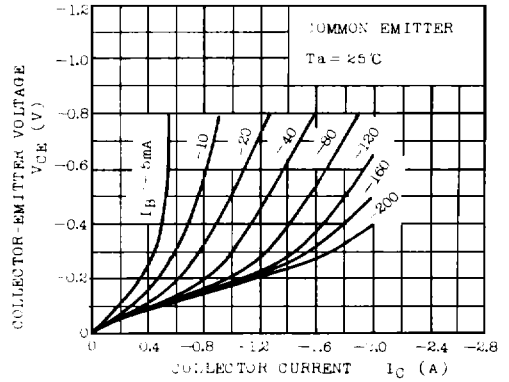
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	I_{CBO}	$V_{CB} = -50V, I_E = 0$	-	-	-1.0	μA	
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	-	-	-1.0	μA	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-50	-	-	V	
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -2V, I_C = -0.5A$ (Note)	70	-	240		
	$h_{FE(2)}$	$V_{CE} = -2V, I_B = -1.5A$	40	-	-		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -1A, I_B = -0.05A$	-	-	-0.5	V	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -1A, I_B = -0.05A$	-	-	-1.2	V	
Transition Frequency	f_T	$V_{CE} = -2V, I_C = -0.5A$	-	100	-	MHz	
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	40	-	pF	
Switching Time	Turn-on Time	t_{on}			-	0.1	-
	Storage Time	t_{stg}			-	1.0	-
	Fall Time	t_f			-	0.1	-

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

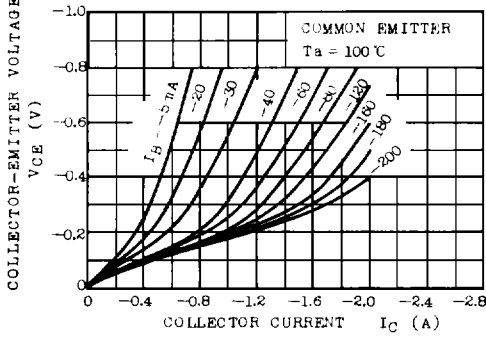
STATIC CHARACTERISTICS



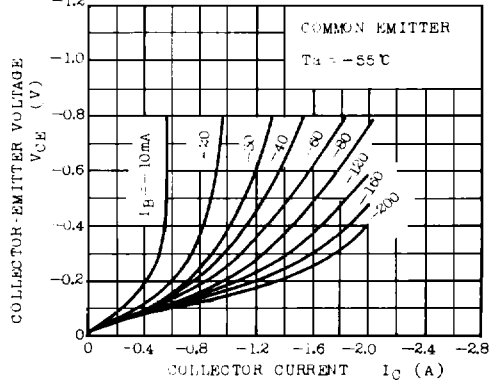
$V_{CE} - I_C$



$V_{CE} - I_C$



$V_{CE} - I_C$



$h_{FE} - I_C$

