

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07238 DT-33-17

2SA816

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

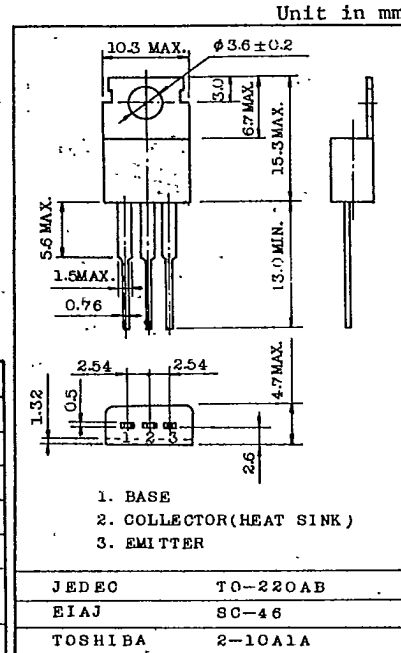
MEDIUM POWER AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES:

- High Breakdown Voltage : $V_{CEO} = -80V$
- Complementary to 2SC1626.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-750	mA
Emitter Current	I_E	750	mA
Collector Power Dissipation ($T_a = 25^\circ C$)	P_C	1.5	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$



Mounting Kit No. AC75
Weight : 1.9g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -30V, I_E = 0$	-	-	-0.5	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	-	-	-1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-80	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -0.1mA, I_C = 0$	-5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -2V, I_C = -150mA$	70	-	240	
	$h_{FE(2)}$	$V_{GE} = -2V, I_C = -500mA$	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$	-	-	-0.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -2V, I_C = -500mA$	-	-	-1.0	V
Transition Frequency	f_T	$V_{CE} = -2V, I_C = -150mA$	50	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	20	-	pF

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

TOSHIBA CORPORATION