

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07346

T-33-31

2SB679SILICON PNP TRIPLE DIFFUSED TYPE
(DARLINGTON POWER)

INDUSTRIAL APPLICATIONS

Unit in mm

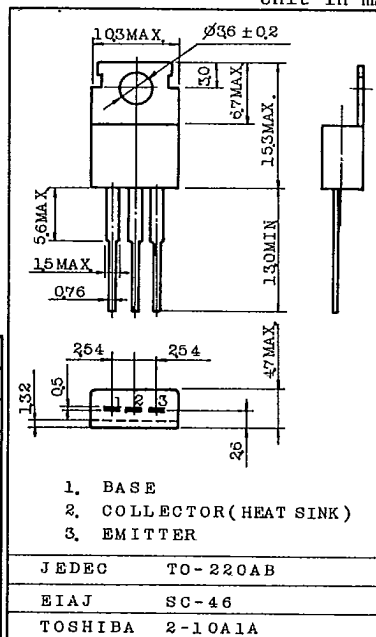
LOW FREQUENCY MEDIUM POWER AMPLIFIER AND
MEDIUM SPEED SWITCHING APPLICATIONS.PULSE MOTOR DRIVE, RELAY DRIVE AND HAMMER
DRIVE APPLICATIONS.

FEATURES :

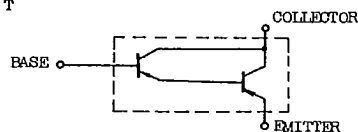
- High DC Current Gain : $h_{FE(2)}=1000(\text{Min.})$
($V_{CE}=-2V$, $I_C=-1A$)
- Low Saturation Voltage : $V_{CE(\text{sat})}=-1.5V(\text{Max.})$ ($I_C=-1A$)
- Complementary to 2SD689.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-100	V
Emitter-Base Voltage	V_{EBO}	-10	V
Collector Current	I_C	-1.5	A
Emitter Current	I_E	1.5	A
Collector Power Dissipation ($T_c = 25^\circ\text{C}$)	P_C	10	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$



EQUIVALENT CIRCUIT

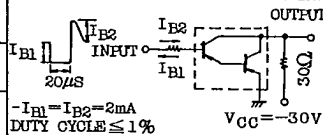


Mounting kit No.AC75

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}	$V_{CB}=-100V$, $I_E=0$	-	-	-10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-10V$, $I_C=0$	-	-	-10	μA
Breakdown Voltage	Collector-Emitter	$V_{(BR)CEO}$ $I_C=-10mA$, $I_B=0$	-100	-	-	V
	Emitter-Base	$V_{(BR)EBO}$ $I_E=-5mA$, $I_C=0$	-10	-	-	
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2V$, $I_C=-0.1A$	2000	-	-	
	$h_{FE(2)}$	$V_{CE}=-2V$, $I_C=-1A$	1000	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(\text{sat})}$ $I_C=-1A$, $I_B=-2mA$	-	-	-1.5	V
	Base-Emitter	$V_{BE(\text{sat})}$ $I_C=-1A$, $I_B=-2mA$	-	-	-2.5	
Switching Time	Turn-on Time	t_{on}	-	0.3	-	μs
	Storage Time	t_{stg}	-	2.0	-	
	Fall Time	t_f	-	0.7	-	



TOSHIBA CORPORATION