

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

2SC2073A

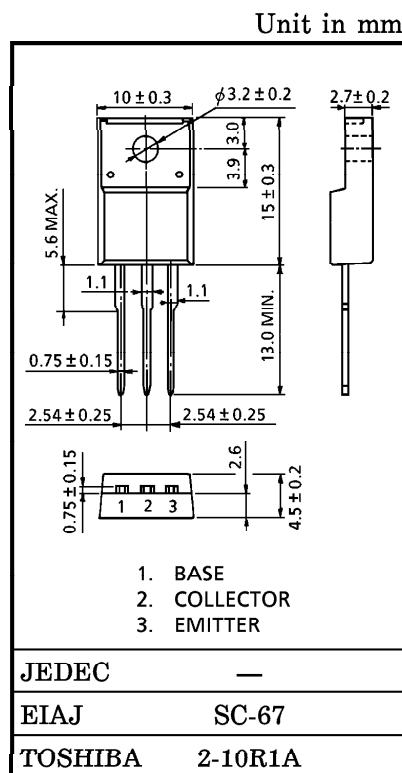
POWER AMPLIFIER APPLICATIONS

VERTICAL OUTPUT APPLICATIONS

- Wide Safe Operating Area.
- Complementary to 2SA940A

MAXIMUM RATINGS (T_a = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CB0}	150	V
Collector-Emitter Voltage		V_{CEO}	150	V
Emitter-Base Voltage		V_{EB0}	5	V
Collector Current		I_C	1.5	A
Base Current		I_B	0.5	A
Collector Power	$T_a = 25^{\circ}\text{C}$	P_C	2.0	W
Dissipation	$T_c = 25^{\circ}\text{C}$		25	
Junction Temperature		T_j	150	$^{\circ}\text{C}$
Storage Temperature Range		T_{stg}	$-55 \sim 150$	$^{\circ}\text{C}$



Weight : 1.7g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=120V, I_E=0$	—	—	10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	—	—	10	μA
DC Current Gain	h_{FE}	$V_{CE}=10V, I_C=500mA$	40	75	140	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	—	—	1.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=10V, I_C=500mA$	0.65	0.75	0.85	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=500mA$	—	4	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	—	35	—	pF

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