TOSHIBA 2SA940A

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

2 S A 9 4 0 A

POWER AMPLIFIER APPLICATIONS **VERTICAL OUTPUT APPLICATIONS**

Complementary to 2SC2073A

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V _{CBO}	-150	V	
Collector-Emitter Voltage	v_{CEO}	-150	V	
Emitter-Base Voltage	$v_{ m EBO}$	-5	V	
Collector Current	$^{\mathrm{I}}\mathrm{C}$	-1.5	Α	
Base Current	$I_{\mathbf{B}}$	-0.5	Α	
Collector Power Ta=25°C	D _~	2.0	w	
Dissipation Tc=25°C	$^{\rm P_C}$	25] **	
Junction Temperature	T_{j}	150	°C	
Storage Temperature Range	$T_{ m stg}$	-55~150	$^{\circ}\mathrm{C}$	

Unit in mm 10 ± 0.3 2.54 ± 0.25 1. BASE 2. COLLECTOR 3. EMITTER **JEDEC EIAJ** SC-67 TOSHIBA 2-10R1A

Weight: 1.7g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	$V_{CB} = -120V, I_{E} = 0$	_	_	-10	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	_	_	-10	μ A
DC Current Gain	${ m h_{FE}}$	$V_{CE} = -10V, I_{C} = -500 \text{mA}$	40	75	140	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$	_	_	-1.5	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -10V, I_{C} = -500mA$	-0.65	-0.75	-0.85	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -10V, I_{C} = -500 \text{mA}$		4		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	55		рF

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