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	VCBO	<b>-150</b>	V		
Collector-Emitter Voltage	VCEO	-150	V		
Emitter-Base Voltage		$V_{ m EBO}$	-5	V	
Collector Current		$I_{\mathbf{C}}$	-1.5	Α	
Base Current		$I_{\mathrm{B}}$	-0.5	Α	
Collector Power	$Ta = 25^{\circ}C$	Da	2.0	w	
Dissipation	$Tc = 25^{\circ}C$	PC	25		
Junction Temperature		$T_{j}$	150	$^{\circ}\mathrm{C}$	
Storage Temperature Range		$\mathrm{T_{stg}}$	-55~150	$^{\circ}\mathrm{C}$	

## Unit in mm 2.54 ± 0.25 1. BASE 2. COLLECTOR **EMITTER JEDEC** EIAJ SC-67 TOSHIBA 2-10R1A WWW.DZSC.CO

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	$\mu$ <b>A</b>			
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	_	_	-10	$\mu$ A			
DC Current Gain	${ m h_{FE}}$	$V_{CE} = -10V, I_{C} = -500 \text{mA}$	40	75	140	THE STATE OF			
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$	- TH	3	-1.5	V			
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -10V, I_{C} = -500 \text{mA}$	-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	_	pF			

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TOSHIBA 2SA940A









