TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2 S C 3 4 2 2

AUDIO FREQUENCY POWER AMPLIFIER.

LOW SPEED SWITCHING.

- Suitable for Output Stage of 5 Watts Car Radio and Car Stereo.
- Good Linearity of her.
- Complementary to 2SA1359.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		v_{CBO}	40	v	
Collector-Emitter Voltage		v_{CEO}	40	40 V	
Emitter-Base Voltage		v_{EBO}	5	V	
Collector Current		$I_{\mathbf{C}}$	3	Α	
Base Current		$I_{\mathbf{B}}$	1	Α	
Collector Power	Ta=25°C	Da	1.5	w	
Dissipation	$Tc = 25^{\circ}C$	$^{\mathrm{P}\mathrm{C}}$	10	"	
Junction Temperature		\mathbf{T}_{j}	150	°C	
Storage Temperature Range		$\mathrm{T_{stg}}$	-55~150	°C	

Unit in mm $\phi 3.1 \pm 0.1$ 11.0 ± 0. 1.0MAX 1.9MAX 0.75 ± 0.15 2.3 ± 0.1 2.3 ± 0.1 **EMITTER** 2. **COLLECTOR** 3. BASE **JEDEC EIAJ**

2-8H1A

Weight: 0.82g

TOSHIBA

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{\rm CB} = 40 \rm V, \ I_{\rm E} = 0$	_		100	nA
Emitter Cut-off Current	${ m I}_{ m EBO}$	$V_{EB}=5V, I_{C}=0$	_	_	100	nA
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C}=10mA, I_{B}=0$	40	_	_	v
DC Current Gain	hFE (1) (Note)	$V_{\rm CE} = 2V, I_{\rm C} = 0.5A$	80	_	240	
	h _{FE} (2)	$V_{CE}=2V, I_{C}=2.5A$	25	_	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{C}=2A, I_{B}=0.2A$	_	_	0.8	v
Base-Emitter Voltage	$v_{ m BE}$	$V_{CE}=2V$, $I_{C}=0.5A$	_	_	1.0	V
Transition Frequency	$ m f_{T}$	$V_{\rm CE}$ =2V, $I_{\rm C}$ =0.5A		100		MHz
Collector Output Capacitance	c_{ob}	$V_{\rm CB} = 10 \rm V, \ I_{\rm E} = 0, \ f = 1 MHz$	_	35	_	pF

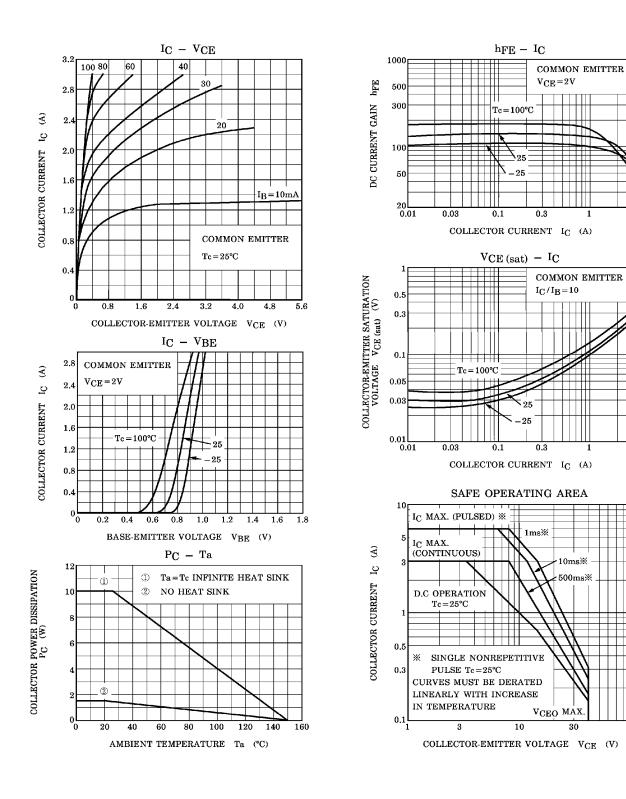
 $O: 80\sim160, Y: 120\sim240$ Note: hFE(1) Classification

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