DE 9097250 0007852 6

9097250 TOSHIBA (DISCRETE/OPTO)

SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

56C 07852 D7-33-09 **2SD1052A** Unit in mm

56

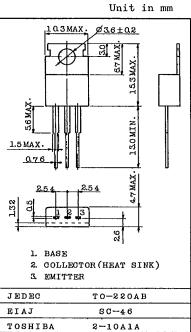
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES :

- . High DC Current Gain of 400 to 1200 at $V_{\rm CE}$ =5V, I_C=0.5A
- . Low $V_{\rm CE}\,(\,{\rm sat})$ of 1.0V (MAX.) at $I_{\rm C}{=}1A,~I_{\rm B}{=}0.02A$
- . Collector Power Dissipation of 30W at $\mathrm{Tc}{=}25^{0}\mathrm{C}$

MAXIMUM RATINGS (Ta=25°C)

CHARACTERI	SYMBOL	RATING	UNIT		
Collector-Base Vol	V _{CB0}	50	v		
Collector-Emitter Voltage		VCEO	50	v	
Emitter-Base Voltage		VEBO	7	v	
Collector Current	IC	3	A		
Base Current	IB	0.5	A		
Collector Power	Ta=25°C	P _C	1.5	w	
Dissipation	Tc=25°C	10	30		
Junction Temperature		Тј	150	°C	
Storage Temperature Range		Tstg	-55~150	°C	



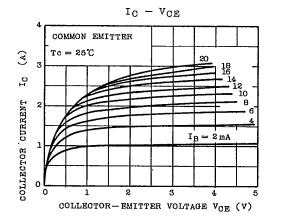
Mounting kit No.AC75 Weight : 19g

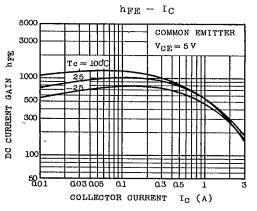
ELECTRICAL CHARACTERISTICS (Ta=25°C			Weight : 1.9g					
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current		ICBO	V _{CB} =50V, I _E ≠0	-	-	100	μA	
Emitter Cut-off Current		I _{EB0}	$V_{\rm EB}=7V$, IC=0		-	100	μΑ	
Collector-Emitter Breakdown Voltage		V(BR)CEO	$I_{C}=50mA$, $I_{B}=0$	50	ł	-	v	
DC Current Gain		$\mathbf{h_{FE}}$	V _{CE} =5V, I _C =0.5A	400	-	1200		
Collector-Emitter Saturation Voltage		$v_{\rm CE(sat)}$	I _C =1A, I _B =0.02A	1	0.25	1.0	v	
Base-Emitter Voltage		VBE	V _{CE} =5V, I _C =0.5A	-	0.7	1.0	v	
Transition Frequency		fT	V _{CE} =5V, I _C =0.5A	1	5.0	-	MHz	
Collector Output Capacitance		Cob	V_{CB} =10V, IE=0, f=1MHz	-	70	-	\mathbf{pF}	
Switching Time	Turn-on Time	Ton	$\begin{array}{c} 20 \mu \text{B} \\ \text{I}_{B1} \\ \hline \\ 1_{B2} \\ \hline \\ 1_{DV} \\ 1_{DV} \\ \hline \\ $	1	2.0	-	μs	
	Storage Time	T_{stg}		-	5.0	-		
	Fall Time	т _f		-	3.0	-		

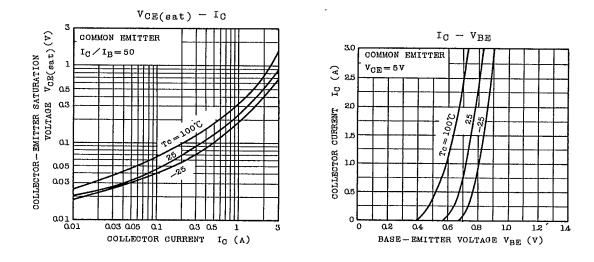
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9097250 TOSHIBA (DISCRETE/OPTO) 2SD1052A

56C 07853 DT-33-09

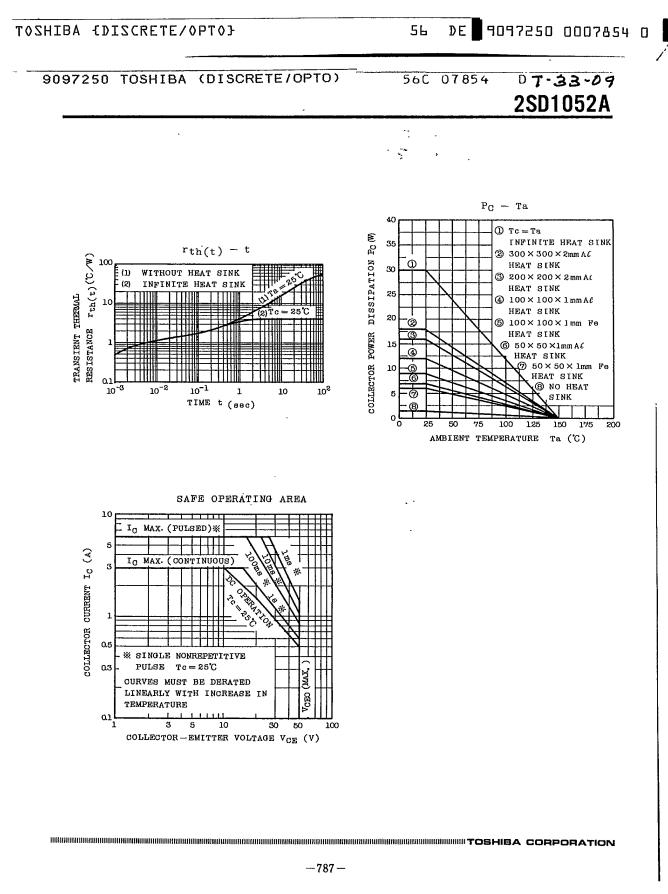






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