Unit in mm

9097250 TOSHIBA (DISCRETE/OPTO)

560 07505

D ア- 33-07

2SC2231 -2SC2231A-

SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

HIGH VOLTAGE GENERAL AMPLIFIER APPLICATIONS. COLOR TV CLASS B SOUND OUTPUT APPLICATIONS. FEATURES:

. High Voltage : $V_{\rm CEO}$ =180V (2SC2231A)

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		v _{CBO}	200	v	
Collector-Emitter Voltage	2SC2231	v_{CEO}	160	v	
	2SC2231A	CEO	180		
Emitter-Base Voltage		$v_{\rm EBO}$	5	v	
Collector Current		IC	200	mA	
Base Current		IB	100	mΛ	
Collector Power Dissipation	Ta=25°C	D	1.5	W	
	Tc=25°C	PC	12		
Junction Temperature		Тj	150	°C	
Storage Temperature Range		Tstg	-55~150	°c	

2.54 2.54 90 XVW 2.5 X
JEDEC TO-202
EIAJ —
TOSHIBA 2-10F1B

Weight :1.4g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V _{CB} =200V, I _E =0	-		0.1	μA
Emitter Cut-off Current	I _{EBO}	$V_{\rm EB}=5V$, $I_{\rm C}=0$	-	-	0.1	μA
DC Current Gain	h _{FE} (1) (Note)	V _{CE} =10V, I _C =50mA	100	-	320	_
	h _{FE} (2)	V _{CE} =10V, I _C =150mA	80	-	_	
Collector-Emitter Saturation Voltage	VCE(sat)	I_{C} =200mA, I_{B} =20mA	-	-	1.0	v
Base-Emitter Voltage	v _{BE}	V _{CE} =10V, I _C =5mA	0.55	0.65	0.75	V
Transition Frequency	fT	V _{CE} =10V, I _C =50mA	50	-	-	MHz
Collector Output Capacitance	Cob	$V_{\rm CB}$ =10V, I _E =0, f=1MHz	_	_	10	pF

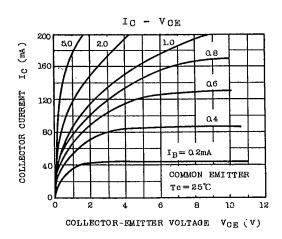
Note: hFE(1) Classification 0:100~200, Y:160~320

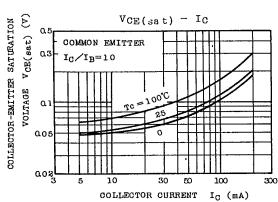
TOSHIBA CORPORATION (MINISTERIOR COMPONENTIAL CORPORATION) (MINISTERIOR CORPORATION) (MINISTERIO

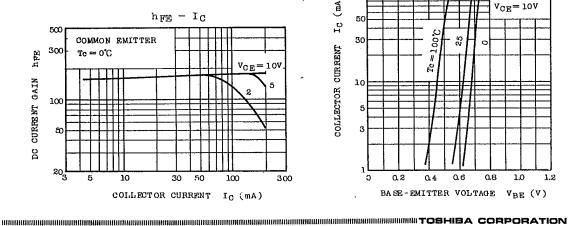
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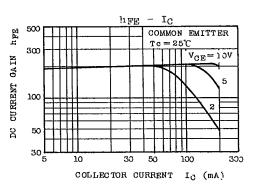
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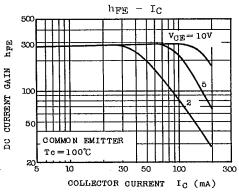
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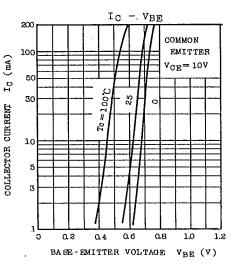












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