TOSHIBA .	EDISCRETE.	/OPTO}
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9097250 TOSHIBA (DISCRETE/OPTO) 2SC2231

566 07 505

SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

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

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

2SC2231A

	Unit in mm
	Unit in mm
Т	Į≬
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
v	V V V
v	
v	1. BASE 2. COLLECTOR
1A	(COLLECTOR CONNECTED TO TAB)
ιA	3. EMITTER
	JEDEC TO-202
W	EIAJ —
	TOSHIBA 2-10F1B
,C	Weight :1.4g

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CBO}	200	v
Collector-Emitter Voltage	2802231	VCEO	160	v
	2SC2231A		180	1 1
Emitter-Base Voltage		VEBO	5	v
Collector Current		IC	200	mA
Base Current		IB	100	mA
Collector Power Dissipation	Ta=25°C	PC	1.5	
	Tc=25°C		12	W
Junction Temperature		Тј	150	oC
Storage Temperature Range		Tstg	-55~150	°C

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	μΑ
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	0.1	μA
DC Current Gain	h _{FE} (1) (Note)	V _{CE} =10V, I _C =50mA	100	-	320	_
	$h_{\rm FE}(2)$	V _{CE} =10V, I _C =150mA	80	-	_	
Collector-Emitter Saturation Voltage	V _{CE(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	$V_{CB}=10V$, $I_{E}=0$, $f=1MHz$	-	_	10	pF

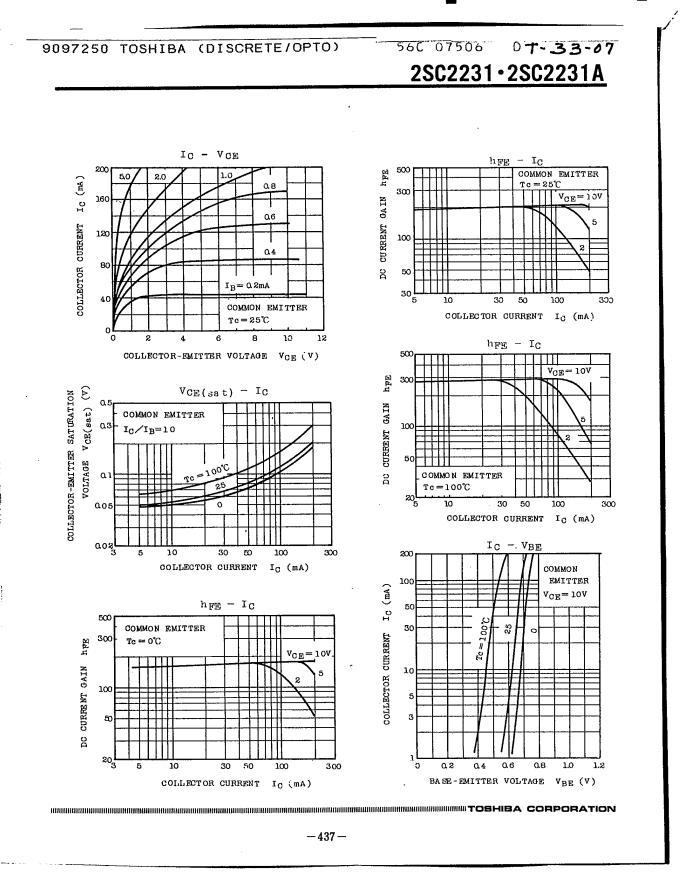
Note : hFE(1) Classification 0:100~200, Y:160~320

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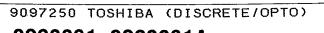
TOSHIBA {DISCRETE/OPTO}

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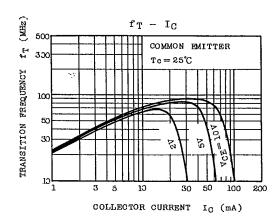
TOSHIBA {DISCRETE/OPTO}

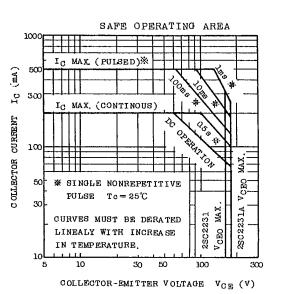
56 DE 9097250 0007507 0

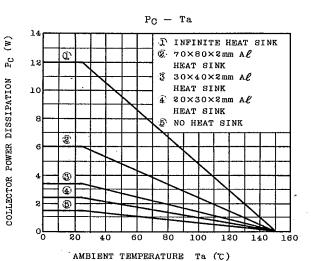


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<u>2SC2231 • 2SC2231A</u>







AMBLENT TEMPERATURE Ta ()

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