## 9097250 TOSHIBA (DISCRETE/OPTO)

## SILICON PNP TRIPLE DIFFUSED TYPE

560 07297 2SA1301

W.100Y.COM.TW POWER AMPLIFIER APPLICATIONS.

- FEATURES:
- . Complementary to 2SC3280

  . Recommend for Por-. Recommend for 80W High Fidelity Audio Frequency

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CBO</sub>	-160	٧v
Collector-Emitter Voltage	V <sub>CEO</sub> .	-160	V,
Emitter-Base Voltage	VEBO:	-5	V
Collector Current	I <sub>C</sub>	-12	Α.
Base Current	Ϊ́B	-1.2	, A
Collector Power Dissipation (Tc=25°C)	P <sub>C</sub> .	120	wj.
Junction Temperature	Tj	150	°c ·
Storage Temperature Range	Tstg	-55~150	°c-

Unit in mm Ø33±02 545±015 1. BASE 2. COLLECTOR (HEAT SINK-) 3. EMITTER JEDEC ELAJ

> Weight: 9.75g WWW.100X

2-21F1A

TOSHIBA

Storage Temperature Range	Tstg	-55~150 °C				
ELECTRICAL CHARACTERISTICS (Ta	n=25 <sup>o</sup> C)	VW.100Y.COM.TW		WW	M.In	00Y.C
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V <sub>CB</sub> =-160V, I <sub>E</sub> =0	1 -	-41	-5.0	μA
Emitter Cut-off Current	IEBO	V <sub>EB</sub> =-5V, I <sub>C</sub> =0	- csl -	-	-5.0	μA
Collector-Emitter Breakdown Voltage	V(BR)CEO	I <sub>C</sub> =-50mA, I <sub>B</sub> =0	-160	-	W.W.	v
DC Current Gain	h <sub>FE(1)</sub> (Note)	$v_{CE}$ =-5 $v$ , $i_{C}$ =-1 $A$	55	-	160	11.11
TWW.100 COM	hFE(2)	V <sub>CE</sub> =-5V, I <sub>C</sub> =-6A	35	80	-W	M.M.
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-8A, I <sub>B</sub> =-0.8A	W.T.	-0.9	-2.5	V
Base-Emitter Voltage	V <sub>BE</sub>	$V_{CE}=-5V$ , $I_{C}=-6A$	$0_{N7}$	-1.0	-1.5	V
Transition Frequency	$\mathbf{f}_{\mathbf{T}}$	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A	· No	30		MHz
Collector Output Capacitance	.· C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz		480	_	pF
	- A B ( W D -					

Note:  $h_{FE}(1)$  Classification R:  $55 \sim 110$  0:  $80 \sim 160$ 

-225-

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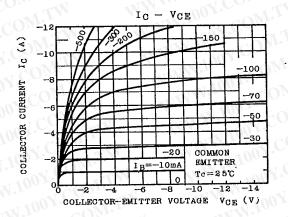
Http://www. 100y. com. tw

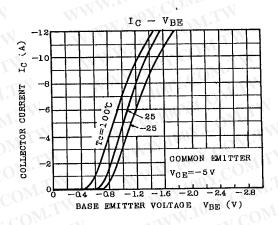
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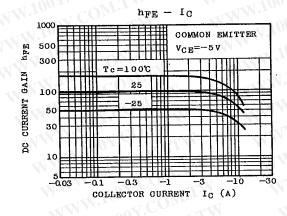
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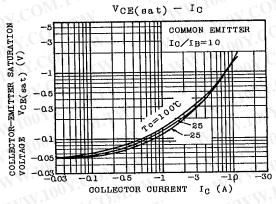
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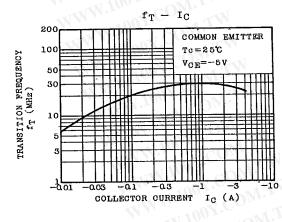
2SA1301

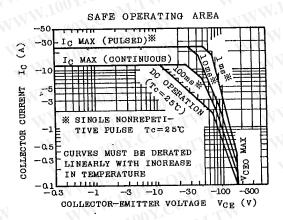












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- 28 - 型 名		MMM.100X MMM.100X	最力	定格(T	a=25℃, *	ED(はTc=2		TW.	(V.)	電気				C) [*E[	lはtyp値		
型 名 2SA1262	社 名	用 途	V <sub>СВО</sub>	VCEO	Ic(DC)	Pc	Pc*	l <sub>CBO</sub> (max)	V <sub>CB</sub>	hfi (min)	(max)	V <sub>CE</sub>	Ic/IE	(max)	V <sub>BE</sub> (sa (max)		Т
0041040	サンケン	DOM	(V)	(V)	(A)	(W)	(W)	(μA)		400	1.	-	(A)	(V)	(V)	Ic (A)	+
	東芝	PSW	-60	-60 -80	-4	30		-100	-60 -80	40	100	-4	-1	-0. 6 -2	<del> </del>	-2 -5	
2SA1263N 2SA1264N	東芝	PA	-80 -120	-120	-6 -8		60 80	-5 -5	-120	55 55	160	-5 -5	-1	-2	<del> </del>	-6	-
2SA1265N	東芝	PA PA	-140	-140	-10	-3.8	100	-5	-140	55	160	-5	-1 -1	-2	<del> </del>	-7	
2SA1283N 2SA1282	三菱		-140	-140	-10	0. 9	100	-0. 2	-140	150	800	+ -	-0.1	-0.3	<u> </u>	-1	-
2SA1282A	二支	LF PA	-20	-16	-2	0. 9	NT.	-0. 2	-16	150	500	-4	-0.1	-0.3		-1	-
2SA1282A 2SA1283	二菱	LF PA	-20	-20 -60	-z -1	0. 9		-0. 2	-50	55	300	-4	-0.1	-0.3	<del></del>	-0.5	-
2SA1284	三菱	LF PA	-100	-100	-0.5	0. 9	«NÍ	-0. 2	-50	55	300	-10	-0.1	-0. 5	N	-0. 15	-
2SA1285	三菱	LF A	-100	-120	-0. 1	0. 9		-0.3	100	150	800	-10	-0.01	-0. 6		-0.15	-
2SA1285A	三菱	LF A	-150	-150	-0.1	0. 9		-0.1	100	150	500	-10	-0.01	-0.6	N	-0.05	_
2SA1286	三菱	G D	-30	-20	-1.5	0. 9		-0.1	-20	400	800	-6	-0.5	-0.5		-1	+
2SA1287	三菱	G D/Reg	-50	-50	-1	0. 9	-417	-0.1	-40	400	800	-6	-0.1	-0.5	CV	-0.5	_
2SA1289	三洋	HS PSW/PA	-80	-60	-7	0. 0	30	-100	-40	70	280	-2	-1	-0.4	1	-2.5	
2SA1290	三洋	HS PSW/PA	-80	-60	-7		35	-100	-40	70	280	-2	-1	-0, 4	TI	-3. 5	+
2SA1291	三洋	HS PSW/PA	-80	-60	-12		40	-100	-40	70	280	-2		-0.4		-5	_
2SA1292	三洋	HS PSW/PA	-80	-60	-15	<del>CU</del>	80	-100	-40	70	280	-2		-0.4	- 11	-7.5	
2SA1293	東芝	HS PSW/DDC	-100	-80	-5		30	-1	-100	70	240	N-1	-1	-0.4	-1.2		
2SA1294	サンケン	PSW PSW	-230	-230	-15	130		-100	-230	40		-4		<u> </u>	1.0	-5	-
2SA1295	サンケン	PSW	-230	-230	-17	200	$II_{C}$	-100	-230	40		-4	-5	-2	111	-5	_i_
2SA1296	東芝	LF PA/PSW	-20	-20	-2	0, 75	On	-0.1	-20	120	400	-2	-0.1	-0.5	1122	-2	_
2SA1297	東芝	LF PA/PSW	-20	-20	-2	0. 4		-0.1	-20	120	400	-2	-0.1	-0.5	OM	-2	
2SA1298	東芝	LF PA/PSW	-30	-25	-0.8	0. 2	$C_{\Omega_{\tilde{p}}}$	-0.1	-30	100	320	-1	-0.1	-0.4		-0.5	-
2SA1299	三菱	LF LN A	-50	-50	-0.2	0.3		-0.1	-50	150	800	-6		-0.3		-0.1	_
2SA1300	東芝	PA/2hut	-20	-10	-2	0.75	7 CU	-0.1	-20	140	600	-1	-0.5	-0.5	CA	-2	
2SA1301	東芝	PA PA	-160	-160	-12	100	120	-5	-160	55	160	-5	-1	-2. 5	40	-8	_
2SA1302	東芝	PA	-200	-200	-15		150	-5	-200	55	160	-5		-3	C	-10	-
2SA1303	サンケン	PSW	-150	-150	-14	125	3	-100	-150	50		-4	-5		- 41	-5	-
2SA1304	東芝	PA/Vout	-150	-150	-1.5	2	20	-10	-120	40	140	-10	-0.5	-1.5	N.C	-0.5	1
2SA1306	東芝	PA	-160	-160	-1. 5	-x1 11	20	-1	-160	70	240	-5	-0.1	-1.5		-0.5	Ť
2SA1306A	東芝	PA 7 CO	-180	-180	-1.5	14.,	20	C-1	-160	70	240	-5	-0.1	-1.5	N.	-0.5	Ť
2SA1306B	東芝	PA	-200	-200	-1.5	-41	20	-1	-160	70	240	-5		-1.5	10	-0.5	1
2SA1307	東芝	PSW	-60	-50	-5	2	20	J (-1-	-50	70	240	-1	-1	-0.4	-1. 2	-3	1
2SA1309	松下	LF A	-30	-25	-0.1	0.3	100	-0.1	-10	160	460	-10		-0.3	100.	-0.05	1
2SA1309A	松下	LF A	-60	-50	-0.1	0.3	83.	-0.1	-10	-	460	-10		-0.3	-0	-0.05	1
2SA1310	松下	LF LN A	-60	-55	-0.1	0. 3	×1 10	-0.1	-10	+	700	-5		-0.6	100	-0.1	1
2SA1312	市艺	LF LN A	-120	-120	-0.1	0, 15	Nor	-0.1	-120	200	700	-6		-0.3		-0.01	-

007. 100 100	7.		電	気	的	特	性	(Ta=25℃) [*E	印(dtyp値)		W.100	COM.	#5 4= 4± 4±	
ft	<u> </u>			SW Time	_	Cob	Cre	7	の他の主	要項目	コンプリ	外形	電極接続	型名
(MHz)	VCE (V)	Ic/IE	ton (µs)	tf	tstg	(max) (pF)	(max) (pF)	項目	特 性	測定条件	メンタリ	=1 COM1.	備考	
` -	-			(µs)	(µs)	(pr)	(pr)	-9 -0	19 12	16, 2 × 11	2SC3179	(MT25)	BCE	2SA1262
15*	-12 -5	-0.2	0.25*	0.25*	0.75*	290*	-3XI	1.10	-OM-	×1 ×	2SC3180N	SC-65	BCE	2SA1263N
30*	-5	-1 -1				420*		- 100		W - W	2SC3181N	SC-65	BCE	2SA1264N
30* 30*	-5 -5	-1 -7-1	· 6		4	480*	-400	11.10	- ON-		2SC3182N	SC-65	BCE	2SA1265N
80*	-5 -2	-0. 01		- TY	4	4007		- 400			2SC3424	(TO-92L)	ECB	2SA1282
80*	-2	-0. 01	COL	100	-7	42*			-1 (,O)	-31	2SC3424A	(T0-92L)	ECB	2SA1282A
85*	-2	-0.01		. ( T		22*		3.400			2SC3243	(TO-92L)	ECB	2SA1283
130*	-10	-0.01	- 00	M	-1	11*		NATION AND THE PROPERTY OF THE	27 COP		2SC3244	(TO-92L)	ECB	2SA1284
200*	-10	-0.01		- 15	CAN-	3.5*	- 1	711	07.7		2SC3245	(TO-92L)	ECB	2SA1285
200*	-10	-0.01	- 0	ON-	1	3.5*					2SC3245A	(TO-92L)	ECB	2SA1285A
90*	-10	-0.01	1		-177	37*	胀	特力本	才 料 886-3	3-5753170	2SC3246	(TO-92L)	ECB	2SA1286
90*	-10	-0.01	0 -	MOr		30*	0.0010		the state of the s	12.74412.00,14-0-4270.	2SC3247	(TO-92L)	ECB	2SA1287
100*	-5	-1	0.1*	0.1*	0.5*		胜	特力电子	(上海) 86-2	1-34970699	2SC3253	TO-220AB形	BCE	2SA1289
100*	-5	VV-1	0.1*	0.1*	0.5*	. 41	HA-	株力由乙	(25年前) 86-71	55-83298787	2SC3254	TO-220AB开》	BCE	2SA1290
100*	-5	-1	0.1*	0.1*	0.5*	44-	力士:	母为 电 1	(张列) 00 7	00 00200101	2SC3255	TO-220AB形	BCE	2SA1291
100*	-5	√-1 ·	0.1*	0.1*	0.5*	-41		Http://y	www. 100y.	com. tw	2SC3256	(TO-3PB)	BCE	2SA1292
60*	-4	-1	0.2*	0.1*	1*	200*					2SC3258	TO-220AB形	BCE	2SA1293
35*	-12	-2	0.35*	0.3*	1.5*	-4		-111	11.5	COP	2SC3263	(MT100)	BCE	2SA1294
35*	-12	-2	0.35*	0.3*	1.5*			7/1	-1100		2SC3264	(MT200)	BCE	2SA1295
120*	-2	-0.5	N.F	- 7	4())	40*	<b>«</b> 1	- 1	MN.	of COP	2SC3266	TO-92形	ECB	2SA1296
120*	-2	-0.5	- 4	U(1) X .		40*	N.A.		1100	3. 27.7	2SC3267	(2-4E1A)	ECB	2SA1297
120*	-5	-0.01	W.)		- CO	13*	_ 1		- T	A CON	2SC3265	(SC-59(2-3F1*))	EBC	2SA1298
200*	-6	-0.01		1007		4*	MA	NF	typ 0.5dB	f=1KHz Rg=10K		(TO-92S)	ECB	2SA1299
140*	-1	-0.5	N IX	1	-7 (1	50*	- 1			T COMP	- 3	TO-92形	ECB	2SA1300
30*	-5	-1	7.	- 400	J.	480*	4.14		W 1	$00_{J_0}$	2SC3280	(2-21F1A)	BCE	2SA1301
25*	-5	-1	-	1.10	-7 (	470*		<b>4</b> 1		of COM	2SC3281	(2-21F1A)	BCE	2SA1302
50*	-12	-2	0.25*	0.2*	0.85*				W. J.	1007.	2SC3284	(MT100)	BCE	2SA1303
4*	-10	-0.5	-41	M.r.	- 7	55*	7.0	×1		L CON	2SC3296	(2-10L1A)	BCE	2SA1304
100*	-10	-0.1	11 11		007	30*	11		14.4.	1001.	2SC3298	(2-10L1A)	BCE	2SA1306
100*	-10	-0.1	-3		-0	30*	Mr.	-31		N. CO	2SC3298A	(2-10L1A)	BCE	2SA1306A
100*	-10	-0.1		1	400	30*		1.11	M. J.	1007.	2SC3298B	(2-10L1A)	BCE	2SA1306B
60*	-4	-1	0.1*	0.1*	1*	170*	$0 h_{\rm P}$	- 51	-133	M. C	2SC3299	(2-10L1A)	BCE	2SA1307
			111	77	-40	3.5*		TW	M.	1007.	2SC3311	(New S Type)	ECB	2SA1309
				- TX	1.70	3. 5*		1.0	1	MIN.	2SC3311A	(New S Type)	ECB	2SA1309A
				N A.	4	101.		NY	150mV maX	Gv=80dB Rg=100K	1	(New S Type)	ECB	2SA1310
100*	-6	-0.001			T. IV	4*	CO	NF	max 3dB	f=1KHz Rg=10K	2SC3324	(SC-59(2-3F1*))	EBC	2SA1312