SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

9097250 TOSHIBA (DISCRETE/OPTO)

6C 07224 U T-37-15 INDUSTRIAL APPLICATIONS 56C 07224 Unit in mm

HIGH FREQUENCY AMPLIFIER APPLICATIONS. HIGH VOLTAGE SWITCHING APPLICATIONS. REGULATOR APPLICATIONS.

FEATURES:

- High Breakdown Voltage : VCEO=-100V (2SA510) : VCEO=-60V (2SA512)
- · Various Uses for Medium Power
 - : I_C=-1.5A (Max.), P_C=800mW (Max.)
- Complementary to 2SC510 and 2SC512.

CHARACTERISTIC		RATING	UNIT
2SA510 2SA512	V _{CBO}	-120 -80	V
2SA510 2SA512	VCEO	-100 -60	V
Voltage ZSA512 Emitter-Base Voltage		- 5	V
Collector Current		-1.5	A
Base Current			mA
Ta=25°C	Pc	800	mW
Tc=25°C] "		W
Junction Temperature		175	°C
Storage Temperature Range		-65∿175	°C
	2SA512 2SA510 2SA512 Ta=25°C Tc=25°C	SYMBOL	SYMBOL RATING

ø	9.39MAX.
178	Ø845MAX.
	GSMA X.
¢045	130MIN.
0.00	Ø508 3
1. EMIT	1
2. BASE 3. COLL	ECTOR (CASE)
JEDEC	T0-39
ETAJ	TC-5, TB-5B

EIAJ TOSHIBA 2-851A W.OZSC.COM

Weight: 1.13g

ELECTRICAL CHARACTE	RISTICS (Ta=25	°C)					
CHARACTERISTIC CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		ICBO	V _{CB} =-30V, I _E =0	-	-	-1.0	μA
Emitter Cut-off Current		IEBO	$V_{EB}=-5V$, $I_{C}=0$	-	_	-5.0	μA
DC Current Gain		hFE(1) (Note)	V _{CE} =-2V, I _C =-200mA	30	-	150	
		hFE(2)	V _{CE} =-5V, I _C =-1A	15	-		
Collector-Emitter Saturation Voltage		VCE(sat)	I _C =-200mA, I _B =-20mA	-	-0.3	-0.6	V
Base-Emitter Saturation Voltage		V _{BE} (sat)	I_C=-200mA, I_B=-20mA		-0.85	-1.0	
Transition Frequency		f_{T}	V _{CE} =-10V, I _C =-30mA	20	60	-	MHz
Collector Output Capacitance		Соъ	V _{CB} =-10V, I _E =0, f=1MHz	-	43	50	pF
Switching Time	Turn-on Time	ton	INPUT 1kQ OUTPUT	-	0.12	-	
	Storage Time	tstg	20V 10 µs		2.0	-	μs
	Fall Time	tf	DUTY CYCLES 25 VBB 3V VCC =-40	-	0.2	-	

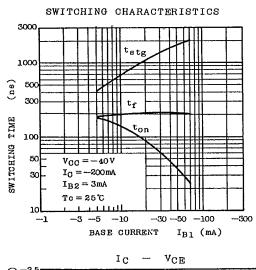
Note: $h_{FE(1)}$ Classification R: 30 $^{\circ}$ 90, 0: 50 $^{\circ}$ 150

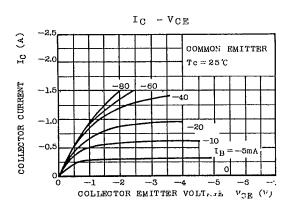
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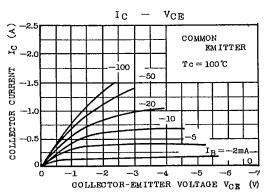
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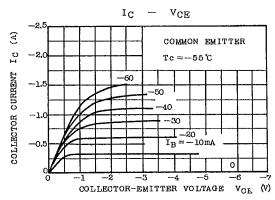
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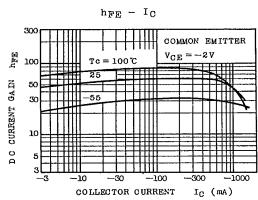
2SA510 · 2SA512

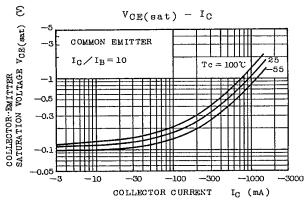












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