2SA510 2SA512

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07224 DT-37-15

INDUSTRIAL APPLICATIONS

Unit in mm

HIGH FREQUENCY AMPLIFIER APPLICATIONS.

HIGH VOLTAGE SWITCHING APPLICATIONS.

REGULATOR APPLICATIONS.

FEATURES:

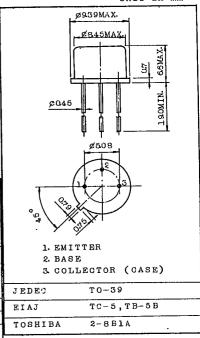
· High Breakdown Voltage: VCEO=-100V (2SA510) (2SA512) : VCEO=-60V

· Various Uses for Medium Power

: I_C=-1.5A (Max.), P_C=800mW (Max.)

· Complementary to 2SC510 and 2SC512.

MAXIMUM (Ta=25°C)				
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	2SA510 2SA512	v _{CBO}	-120 -80	V
Collector-Emitter · Voltage	2SA510 2SA512	V _{CEO}	-100 -60	V
Emitter-Base Voltage		VEBO	/ _{EBO} -5	
Collector Current .		IC	-1.5	A
Base Current	IB	-300	mA	
Collector	Ta=25°C		800	mW
Power Dissipation	Tc=25°C	1 -0	8	W
Junction Temperature		Tj	175	°C
Storage Temperature Range		Tstg	-65 ∿175	°C

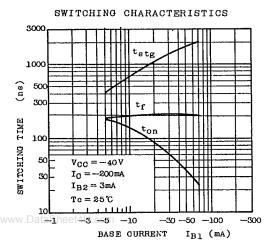


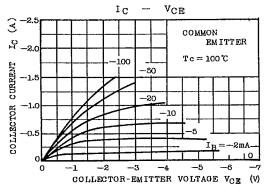
Weight: 1.13g

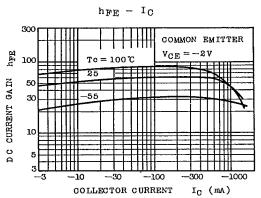
ELECTRICAL CHARACTE	RISTICS (Ta=25	°C)				12177	70770
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} =-30V, I _E =0	-		-1.0	μА
Emitter Cut-off Current		-I _{EBO}	V _{EB} =-5V, I _C =0		_	-5.0	μA
DC Current Gain		h _{FE(1)} (Note)	V _{CE} =-2V, I _C =-200mA	30	-	1.50	
		hFE(2)	$V_{CE}=-5V$, $I_{C}=-1A$	15	-		
Collector-Emitter		V _{CE} (sat)	I _C =-200mA, I _B =-20mA	_	-0.3	-0.6	v
Saturation Voltage		ļ		 	-0.85	-1.0	v
Base-Emitter Saturation Voltage		VBE(sat)	$I_C^{=-200\text{mA}}$, $I_B^{=-20\text{mA}}$			-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	Turn-on Time	ton	INPUT 1kO OUTPUT	-	0.12	-	
Time	Storage Time	tstg	20VI 10 με 21 2	-	2.0		μន
	Fall Time	tf	DUTY ~1	v -	0.2		<u> </u>

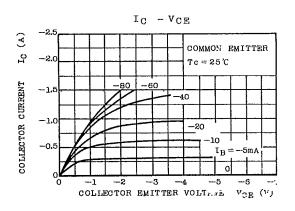
Note: hFE(1) Classification R: 30~90,

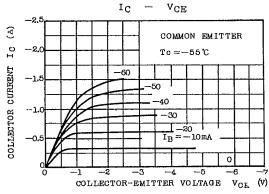
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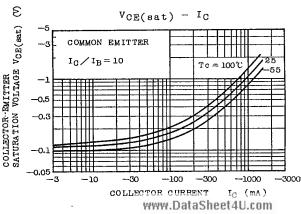


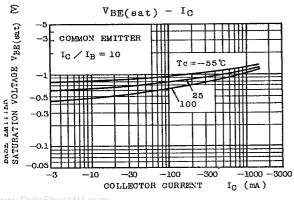




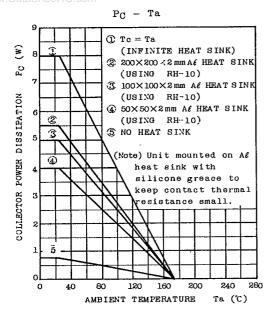


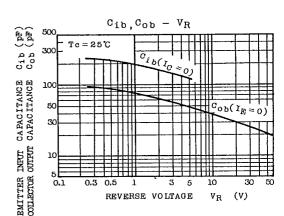












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