Medium power transistor (-60V, -0.5A) 2SA2088

Features

- 1) High speed switching.
- (Tf:Typ.:60ns at Ic = -500mA)
- 2) Low saturation voltage, typically
- (Typ. : -150mV at Ic = -100mA, I_B = -10mA) 3) Strong discharge power for inductive load and
- capacitance load.
- 4) Complements the 2SC5876

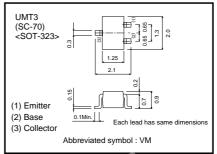
Applications

Structure

Small signal low frequency amplifier High speed switching

PNP Silicon epitaxial planar transistor

•External dimensions (Unit : mm)



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Packaging specifications

	Package	Taping
Туре	Code	T106
	Basic ordering unit (pieces)	3000
2SA2088		0

●Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage	Vсво	-60	V		
Collector-emitter voltage	Vceo	-60	V		
Emitter-base voltage		Vebo	-6	V	
O alla atan aumant	DC	lc	-0.5	А	
Collector current	Pulsed	Іср	-1.0	A *1	
Power dissipation		Pc	200	mW *2	
Junction temperature		Tj	150	°C	
Range of storage temperature		Tstg	-55 to 150	°C	

*1 Pw=10ms

*2 Each terminal mounted on a recommended land



Transistors

•Electrical characteristics (Ta=25°C)

BVCE0 BVCB0 BVEB0 ICB0 IEB0 VCE (sat)	-60 -60 -6 -	- - -	- - -	V V V	Ic= -1mA Ic= -100μA Iε= -100μA
BVево Ісво Іево	6 	-	-	-	
Ісво Ієво	-		-	V	I=100uA
Іево		-			
-	_		-1.0	μA	Vсв= -40V
Ver		-	-1.0	μA	Veb=-4V
VCE (sat)	-	-150	-300	mV	Ic= -100mA Iв= -10mA
hfe	120	-	270	_	Vce= -2V Ic= -50mA
f⊤	_	400	-	MHz	Vce= -10V Ie=100mA f=10MHz
Cob	-	10	-	pF	V _{CB} = -10V I _E =0A f=1MHz
Ton	-	40	-	ns	Ic=-500mA
Tstg	-	110	-	ns	Iв1= –50mA Iв2=50mA
Tf	-	60	-	ns	$V_{CC} = -25V$
circuits			80	为整	Stat R
		1	S2	co	U 1.
	fr Cob Ton Tstg Tf	fr - Cob - Ton - Tstg - Tf - circuits -	fr - 400 Cob - 10 Ton - 40 Tstg - 110 Tf - 60	fr - 400 - Cob - 10 - Ton - 40 - Tstg - 110 - Tf - 60 - circuits S S	fr - 400 - MHz Cob - 10 - pF Ton - 40 - ns Tstg - 110 - ns Tf - 60 - ns

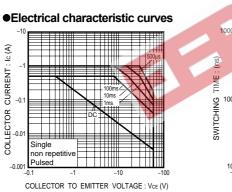
hFE RANK

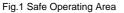
COLLECTOR CURRENT : Ic (A)

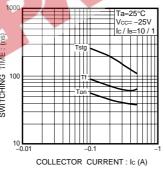
-0.

-0.0

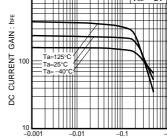
400.070	Q	
120-270	120–270	







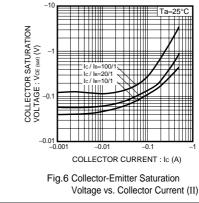


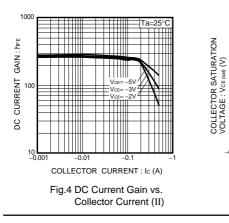


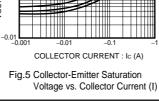
1000

COLLECTOR CURRENT : Ic (A)

Fig.3 DC Current Gain vs. Collector Current (I)





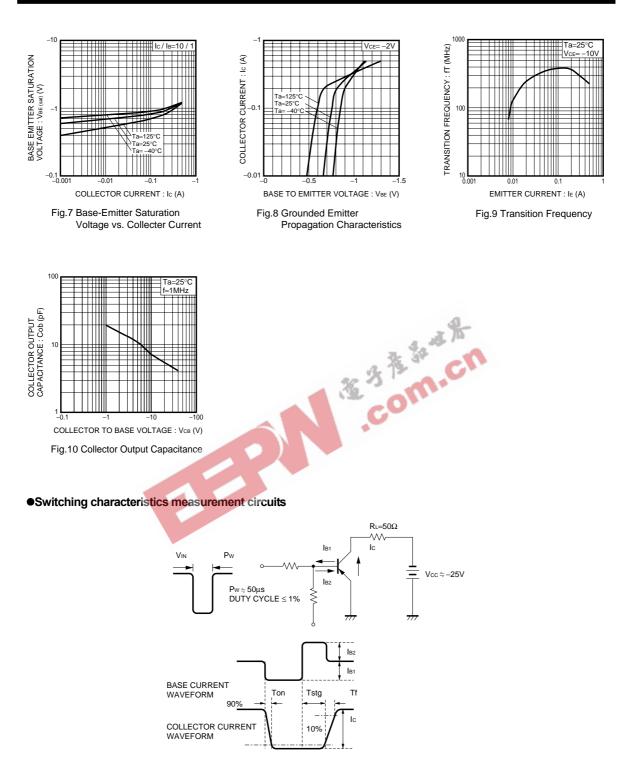


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2SA2088

Transistors



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