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

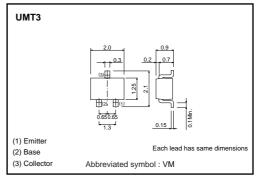
Features

- 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

Small signal low frequency amplifier High speed switching

•External dimensions (Unit : mm)



Structure

PNP Silicon epitaxial planar transistor

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	
	DC	lc	-0.5	А	
Collector current	Pulsed	ICP	-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



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Transistors

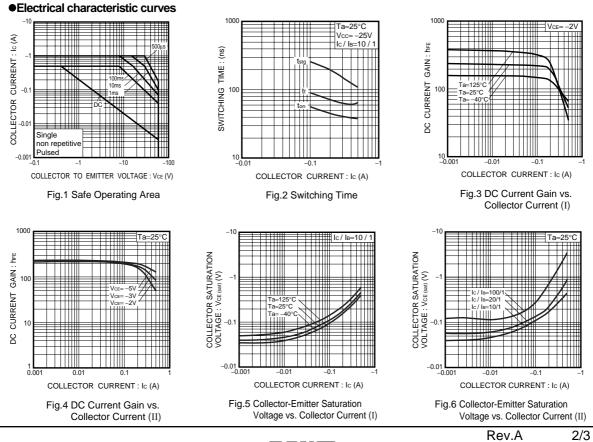
Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Collector-emitter breakdown voltage	BVCEO	-60	_	-	V	Ic=-1mA	
Collector-base breakdown voltage	ВУсво	-60	-	_	V	Ic=-100μA	
Emitter-base breakdown voltage	BVEBO	-6	-	-	V	IE=-100μA	
Collector cut-off current	Ісво	-	-	-1.0	μΑ	Vcb=-40V	
Emitter cut-off current	Іево	-	-	-1.0	μΑ	VEB=-4V	
Collector omittor acturation voltage	VCE (sat)	-	-150	-500	mV	Ic=-100mA	
Collector-emitter saturation voltage						IB=-10mA	
DC ourrent goin	hfe	120	-	270	_	Vce=-2V	
DC current gain						Ic=-50mA	
			- 400	-	MHz	Vce=-10V *1	
Transition frequency	f⊤	-				IE=100mA	
						f=10MHz	
	Cob			-	pF	Vcb=-10V	
Corrector output capacitance		-	10 -			IE=0A	
						f=1MHz	
Turn-on time	ton	-	35	-	ns	Ic=-500mA *2	
Storage time	tstg	-	100	-	ns	Iв1= –50mA Iв2=50mA	
Fall time	tr	_	60	-	ns	Vcc≒-25V	

*1 Non repetitive pulse *2 See Switching charactaristics measurement circuits

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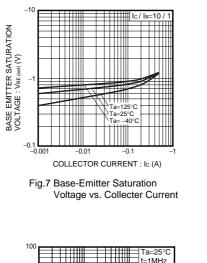
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120–270	

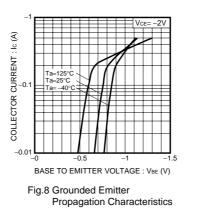


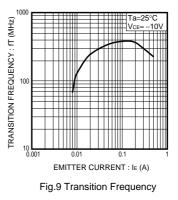
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2SA2088

Transistors

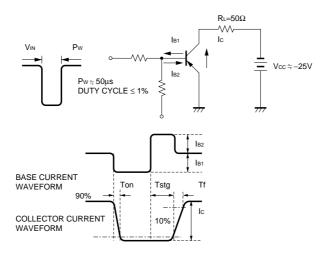






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•Switching characteristics measurement circuits



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