High voltage discharge, High speed switching, Low Noise (-60V, -3A)

2SA2073

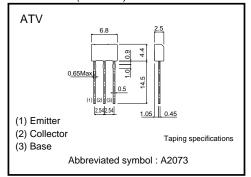
Features

- 1) High speed switching. (tf : Typ. : 20ns at Ic=-3A)
- 2) Low saturation voltage, typically. (Typ.:-200mV at Ic=-2.0A, IB=-200mA)
- 3) Strong discharge power for inductive load and capacitance load.
- 4) Low Noise.
- 5) Complements the 2SC5826.

Applications

High speed switching, Low noise

•Dimensions (Unit : mm)



Structure

PNP silicon epitaxial planar transistor

Packaging specifications

	Package	Taping
Туре	Code	TV2
	Basic ordering unit (pieces)	2500
2SA2073		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	
Collector current	DC	lc	-3	А	
	Pulsed	Іср	-6	A *	
Power dissipation		Pc	1.0	W	
Junction temperature		Tj	150	°C	
Range of storage temperature		Tstg	-55 to 150	°C	
*Pw=10ms					

*Pw=10ms



Transistors

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Collector-emitter breakdown voltage	BVCEO	-60	-	-	V	lc=-1mA
Collector-base breakdown voltage	ВУсво	-60	-	-	V	Ic=-100μA
Emitter-base breakdown voltage	ВVево	-6	-	-	V	Iε=-100μA
Collector cut-off current	Ісво	-	-	-1.0	μΑ	Vcb=-40V
Emitter cut-off current	Іево	-	-	-1.0	μA	Veb=-4V
Collector-emitter saturation voltage	VCE (sat)	-	-200	-500	mV	Ic=-2.0A *1
Collector-enlitter saturation voltage						IB=-200mA
DC current gain	hfe	120	-	270	-	Vce=-2V
						Ic=-100mA
	fτ	-	200	-	MHz	Vce=-10V *1
Transistor frequency						I∈=100mA
						f=10MHz
	Cob	-	40	_	pF	Vcb=-10V
Collector output capacitance						I∈=0mA
						f=1MHz
Turn-on time	ton	_	20	-	ns	Ic=-3A *2
Storage time	tstg	-	130	-	ns	Ів1=-300mA Ів2=300mA
Fall time	tf	_	20	_	ns	Vcc≃ –25V

*1 Single pulse *2 See switching characteristics measurement circuits

●hfe RANK

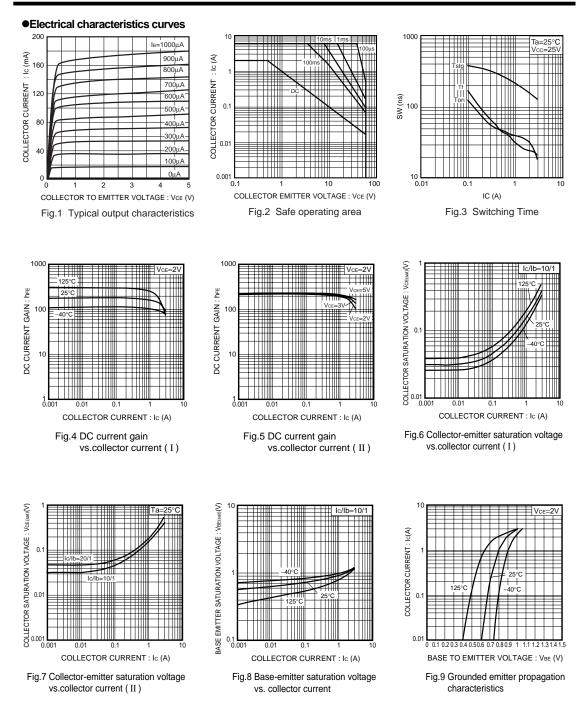
Q	
120–270	



2SA2073

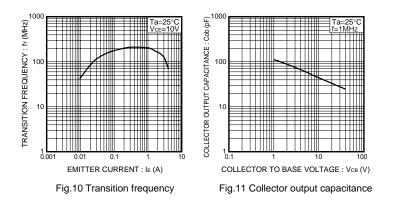
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Transistors

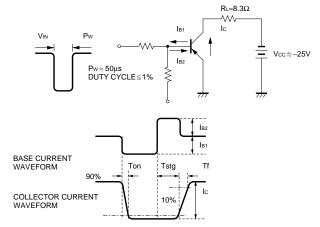


ROHM

Transistors



•Switching characteristics measurement circuits





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