Ordering number : ENN6988A



SANYO Semiconductors DATA SHEET

2SA2063 / 2SC5775

PNP Epitaxial Planar Silicon Transistor NPN Triple Diffused Planar Silicon Transistor

160V / 12A, AF90W Output Applications

Features

- · Large current capacitance.
- Wide ASO and high durability against breakdown.
- · Adoption of MBIT process.

Specifications Note*(): 2SA2063 **Absolute Maximum Ratings** at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(-)180	V
Collector-to-Emitter Voltage	VCEO	90-17-17	(-)160	V
Emitter-to-Base Voltage	VEBO	- 157	(-)6	V
Collector Current	Ic	CALL TO THE	(-)12	Α
Collector Current (Pulse)	ICP	COM	(-)24	А
Collector Dissipation	PC	,0.0	2.5	W
		Tc=25°C	130	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

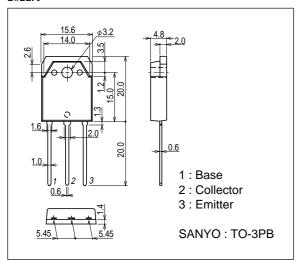
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector Cutoff Current	ICBO	VCB=(-)180V, IE=0			(-)0.1	mA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0			(-)0.1	mA
DC Current Gain	hFE(1)	VCE=(-)5V, IC=(-)1A	60		160	
	hFE(2)	VCE=(-)5V, IC=(-)6A	35			
Gain-Bandwidth Product	fT.	VCE=(-)5V, IC=(-)1A		(10)15		MHz
Output Capacitance	Cob	V _{CB} =(-)10V, f=1MHz		(340)170		pF
Base-to-Emitter Voltage	VBE	VCE=(-)5V, IC=(-)6A			1.5	V
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =(-)6A, I _B =(-)0.6A		(-0.3)0.2	(-)2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)5mA, I _E =0	(-)180		1	V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=(-)50mA, RBE=∞	(-)160			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	IE=(-)5mA, IC=0	(-)6			V
Turn-On Time	ton	See specified test circuit.		(0.45)0.56	Dr.	μs
Storage Time	t _{stg}	See specified test circuit.		(1.75)3.3		μs
Fall Time	tf	See specified test circuit.		(0.25)0.4		μs

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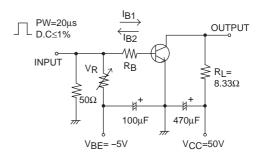
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Package Dimensions

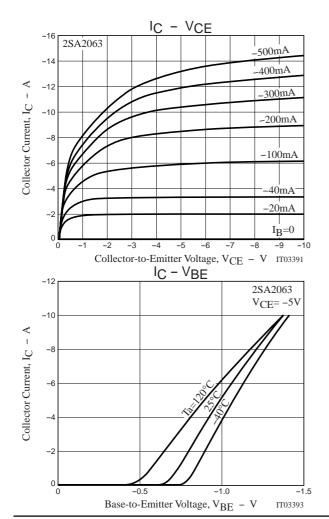
unit : mm 2022A

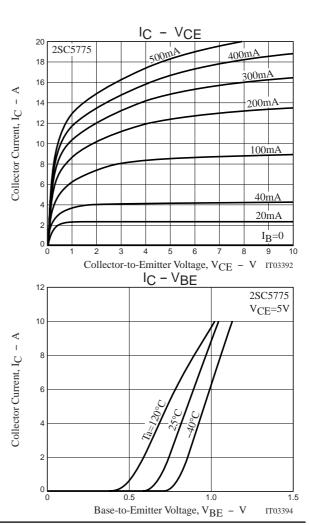


Switching Time Test Circuit

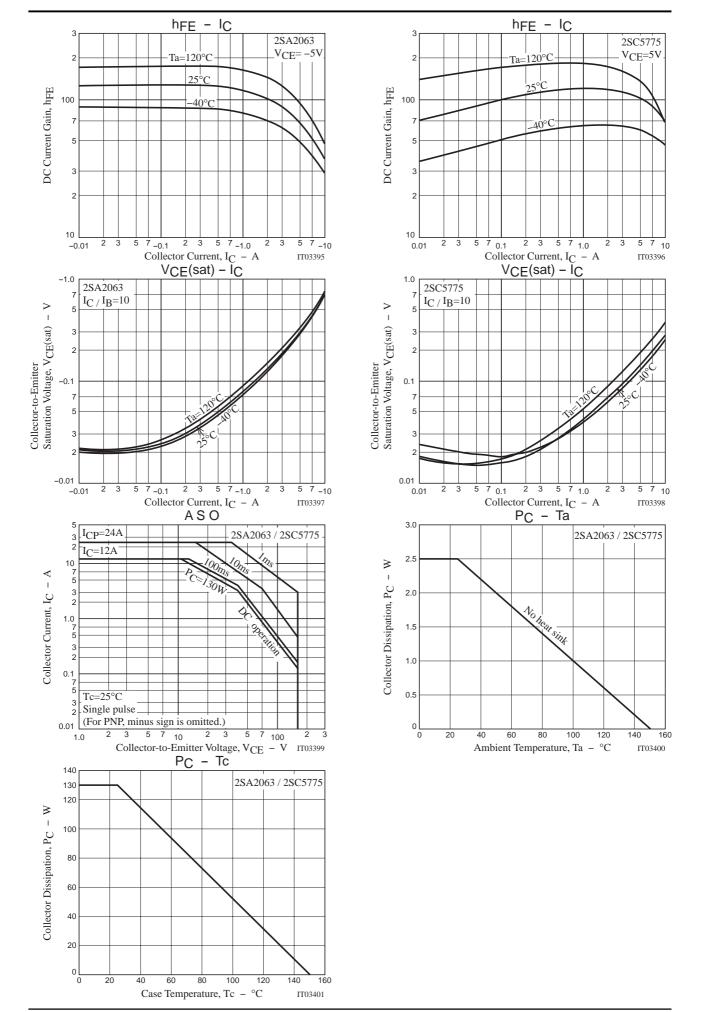


I_C=10I_{B1}= -10I_{B2}=6A For PNP, the polarity is reversed.





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