Ordering number : ENA0188



SANYO Semiconductors DATA SHEET

2SB817C / 2SD1047C

PNP Epitaxial Planar Silicon Transistor NPN Triple Diffused Planar Silicon Transistor

140V / 12A, AF 80W Output Applications

Features

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

Specifications (): 2SB817C

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(-)160	V
Collector-to-Emitter Voltage	VCEO		(-)140	V
Emitter-to-Base Voltage	VEBO		(-)6	٧
Collector Current	IC		(-)12	Α
Collector Current (Pulse)	ICP		(-)20	Α
Collector Dissipation	Do.		2.5	W
	PC	Tc=25°C	120	W
Junction Temperature	Tj	5 / 6/ ////	150	°C
Storage Temperature	Tstg	DataSneet4U.com	-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			1.1-24
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =(-)160V, I _E =0A			(-)0.1	mA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0A			(-)0.1	mA
DC Current Gain	hFE1	V _{CE} =(-)5V, I _C =(-)1A	100		200	
	hFE2	V _{CE} =(-)5V, I _C =(-)5A	35			
Gain-Bandwidth Product	fT	V _{CE} =(-)5V, I _C =(-)1A		(10)15		MHz
Output Capacitance	Cob	V _{CB} =(-)10V, f=1MHz		(280)140		pF
Base-to-Emitterr Voltage	VBE	V _{CE} =(-)5V, I _C =(-)5A			1.5	V
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =(-)5A, I _B =(-)0.5A		(-0.3)0.2	(-)2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC=(-)5mA, IE=0A	(-)160			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(-)50mA, R _{BE} =∞	(-)140			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =(-)5mA, I _C =0A	(-)6			V

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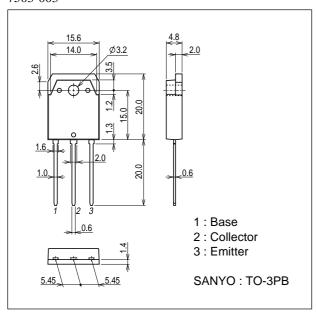
2SB817C / 2SD1047C

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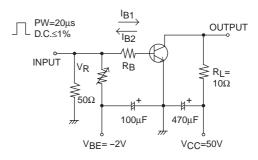
Parameter	Symbol	Conditions	Ratings			Unit
www.DataSheet411.com	Symbol		min	typ	max	Oill
Turn-On Time	ton	See specified Test Circuit.		(0.45)0.56		μs
Storage Time	tstg	See specified Test Circuit.		(1.75)3.3		μs
Fall Time	tf	See specified Test Circuit.		(0.25)0.4		μs

Package Dimensions

unit: mm 7503-003

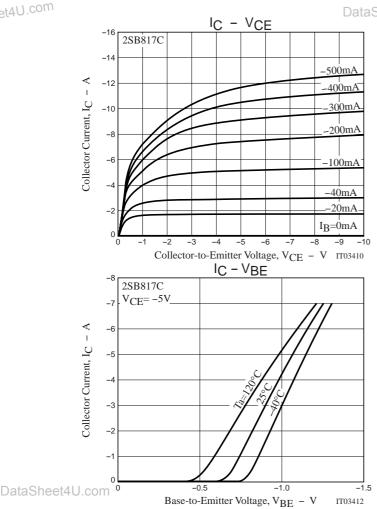


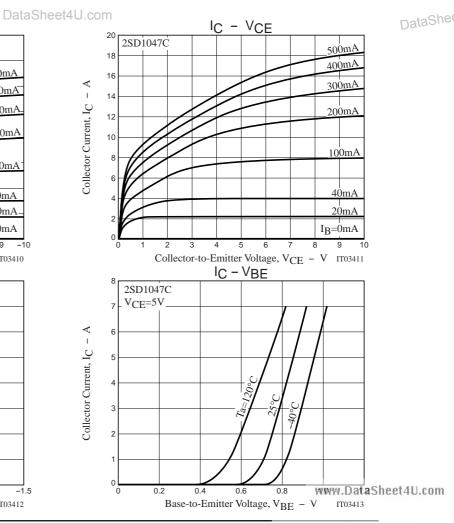
Switching Time Test Circuit



 $I_{C}=10I_{B1}=-10I_{B2}=5A$ For PNP, the polarity is reversed.

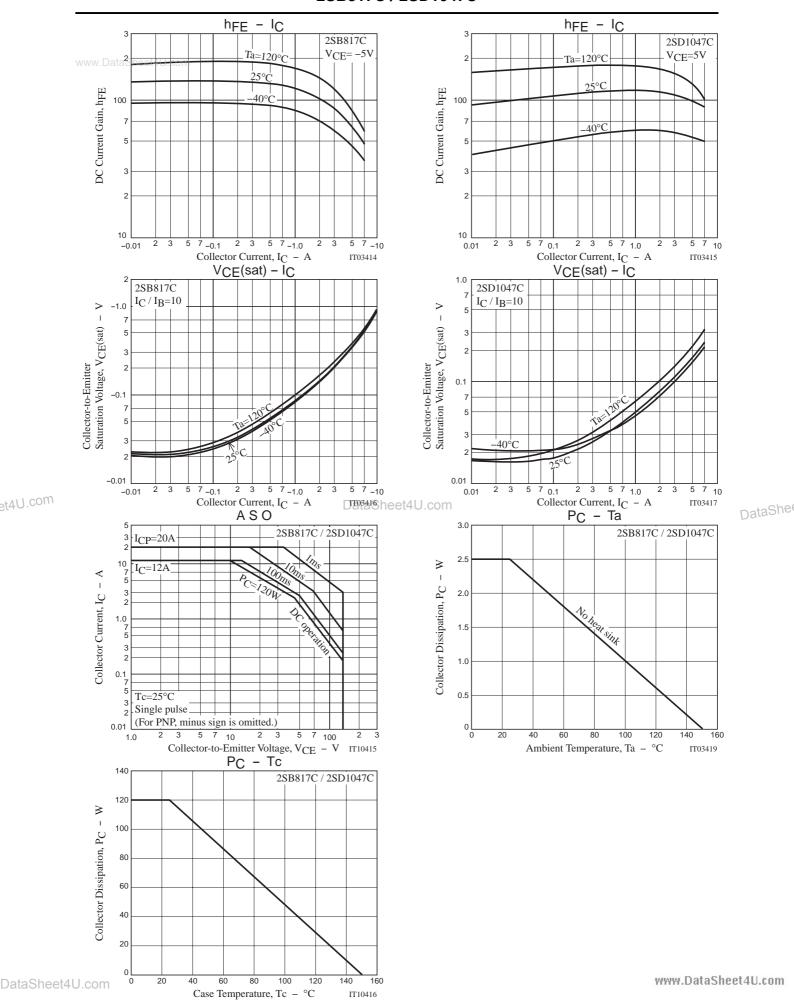
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