

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2SB817C

ON Semiconductor®

http://onsemi.com

Bipolar Transistor -140V, -12A, Low VCE(sat) PNP TO-3P-3L

Features

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

Specifications

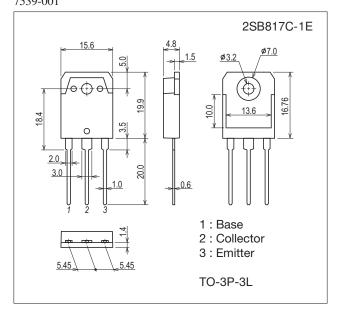
Absolute Maximum Ratings at Ta=25°C

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	V
Collector Current	IC		-12	Α
Collector Current (Pulse)	ICP		-20	Α
Collector Dissipation	Bo.		2.5	W
	PC	Tc=25°C	120	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7539-001



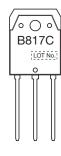
Product & Package Information

• Package : TO-3P-3L

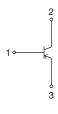
• JEITA, JEDEC : SC-65, TO-247, SOT-199

• Minimum Packing Quantity: 30 pcs./tube

Marking



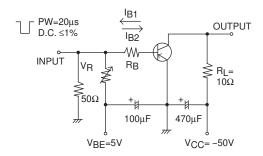
Electrical Connection



Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	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	fŢ	V _C E=-5V, I _C =-1A		10		MHz
Output Capacitance	Cob	V _{CB} =-10V, f=1MHz		280		pF
Base to Emitter Voltage	VBE	V _{CE} =-5V, I _C =-5A			-1.5	V
Collector to Emitter Saturation Voltage	V _{CE} (sat)	IC=-5A, IB=-0.5A		-0.3	-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	IC=-50mA, RBE=∞	-140			V
Emitter to Base Breakdown Voltage	V(BR)EBO	IE=-5mA, IC=0A	-6			V
Turn-ON Time	ton			0.45		μS
Storage Time	t _{stg}	See specified Test Circuit.		1.75		μS
Fall Time	tf			0.25		μs

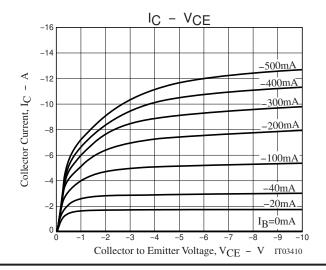
Switching Time Test Circuit

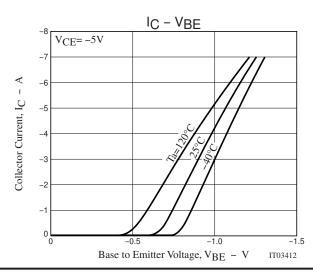


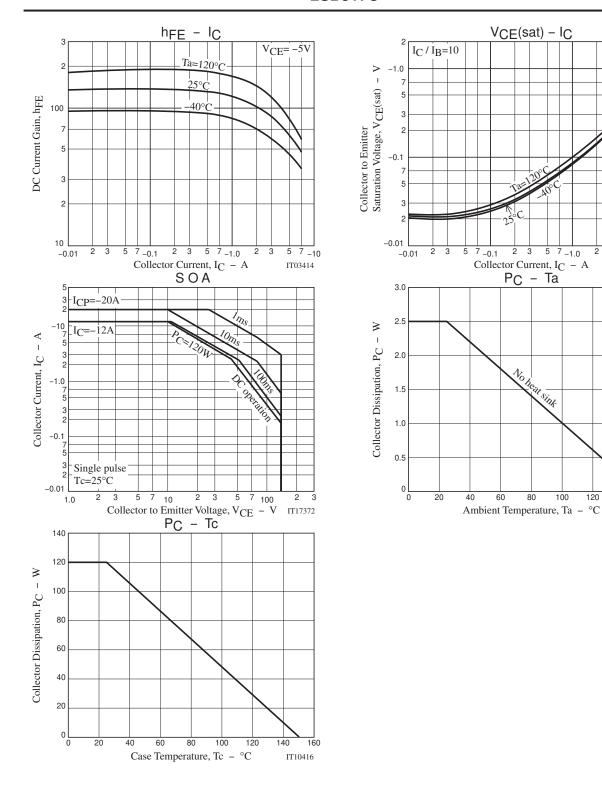
 $I_{C} = -10I_{B1} = 10I_{B2} = -5A$

Ordering Information

Device	Package	Shipping	memo	
2SB817C-1E	TO-3P-3L	30pcs./tube	Pb-Free	







IT03416

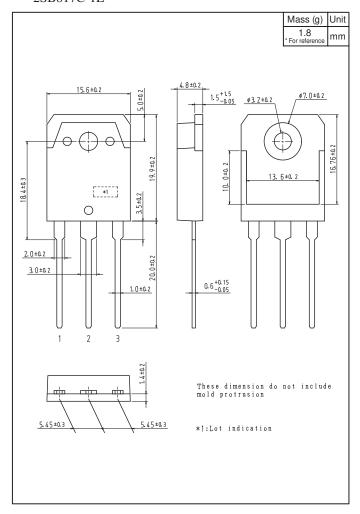
160

IT03419

140

Outline Drawing

2SB817C-1E



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