NPN Epitaxial Planar Silicon Transistor



2SD2117

General Driver Applications

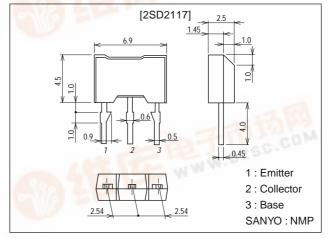
Features

- · Darlington connection.
- · High DC current gain.
- · Large current capacity, wide ASO.

Package Dimensions

unit:mm

2064A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol Conditions		Ratings	Unit				
Collector-to-Base Voltage	V _{CBO}		80	V				
Collector-to-Emitter Voltage	V _{CEO}		50	V				
Emitter-to-Base Voltage	VEBO		10	V				
Collector Current	l _C		1.5	Α				
Collector Current (Pulse)	I _{CP}	- A.D. (1877)	3	А				
Collector Dissipation	PC	AND LIFE VOLUME	1	W				
Junction Temperature	Tj		150	°C				
Storage Temperature	Tstg		-55 to +150	°C				

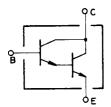
Electrical Characteristics at Ta = 25°C

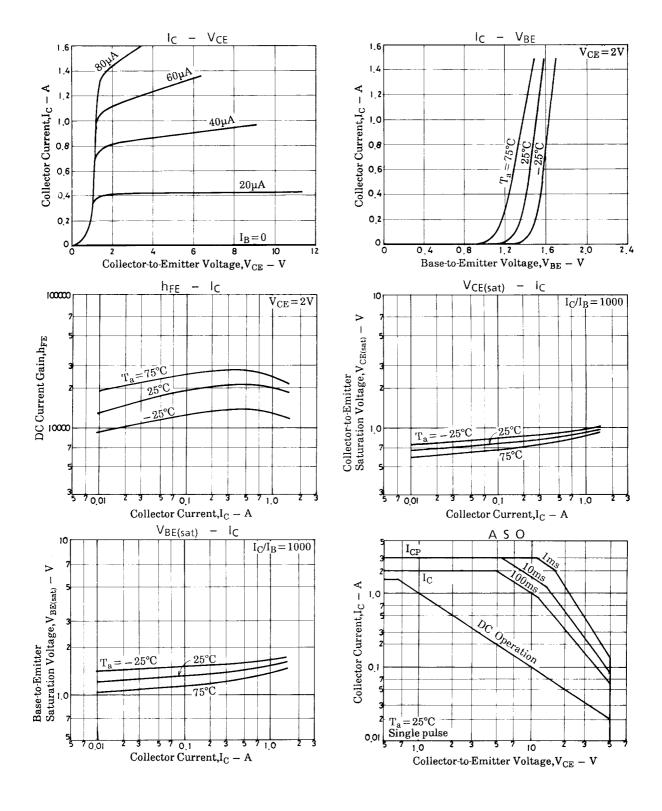
Parameter	Symbol	Conditions	Ratings			Unit
Falametel			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =40V, I _E =0			100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =6V, I _C =0			100	nA
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =500mA	4000			1111
	h _{FE} 2	V _{CE} =2V, I _C =10mA	3000	-11		in the
Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =50mA		120	150.	MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =500mA, I _B =0.5mA	and Mil	0.9	1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =500mA, I _B =0.5mA	-	1.5	2.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =10μA, I _E =0	80			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =1mA, R _{BE} =∞	50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	10			V

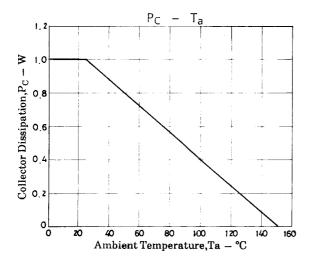
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SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

Electrical Connection







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