2SD2120



General Driver Applications

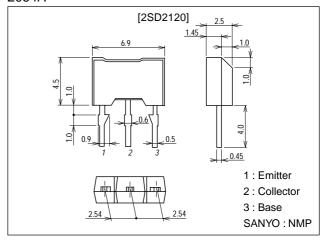
Features

- · Darlington connection (Contains bias resistance, damper diode).
- · High DC current gain.
- · Less dependence of DC current gain on temperature.

Package Dimensions

unit:mm

2064A



Specifications

Absolute Maximum Ratings at Ta = 25°C

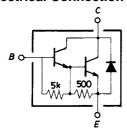
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		100	V
Collector-to-Emitter Voltage	VCEO		80	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	IC		2	Α
Collector Current (Pulse)	I _{CP}		4	Α
Collector Dissipation	PC		1	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

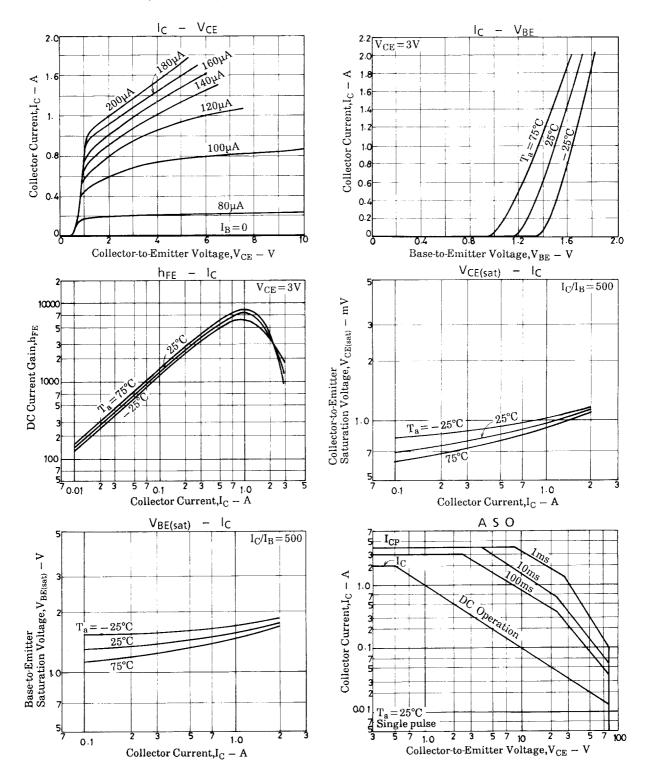
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max] UIIII
Collector Cutoff Current	I _{CBO}	V _{CB} =60V, I _E =0			10	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0			2.5	mA
DC Current Gain	h _{FE} 1	V _{CE} =3V, I _C =500mA	1000			
	h _{FE} 2	V _{CE} =3V, I _C =1A	2000	7000	30000	
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =2mA		1.0	1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =2mA		1.6	2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =100μA, I _E =0	100			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =10mA, R _{BE} =∞	80			V

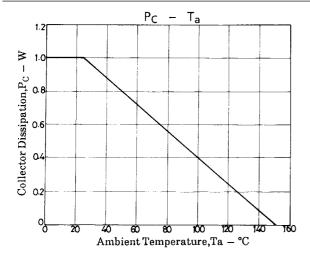
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Electrical Connection



Unit (resistance : Ω)





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