

No.3239

2SD2120

NPN Epitaxial Planar Silicon Transistor

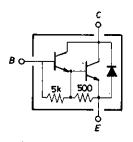
General Driver Applications

Features

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

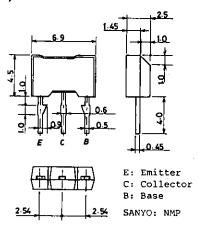
Absolute Maximum Ratings at Ta = 25°C					unit	
Collector to Base Voltage	V_{CBO}			100		
Collector to Emitter Voltage	V_{CEO}			80	V	
Emitter to Base Voltage	V_{EBO}			(3 V	
Collector Current	$I_{\mathbf{C}}$			2	2 · A	
Collector Current(Pulse)	I_{CP}			4	4 A	
Collector Dissipation	$P_{\mathbf{C}}$			1	l W	
Junction Temperature	Tj			150) °C	
Storage Temperature	Tstg		 55 f	to +150		
Electrical Characteristics at Ta = 25°C			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{\rm CB} = 60 \rm V, I_E = 0$	111111	d fo	10	μΑ
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_{C} = 0$			2.5	mA
DC Current Gain	$h_{FE}(1)$	$V_{CE} = 3V_{IC} = 500 \text{mA}$	1000		0	21,12
	$h_{FE}(2)$	$V_{CE} = 3V, I_{C} = 1A$	2000	7000	30000	
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 1A, I_B = 2mA$		1.0	1.5	V
B-E Saturation Voltage	V _{BE(sat)}	$I_C = 1A_I I_B = 2mA$		1.6	2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_{\rm C} = 100 \mu {\rm A}, I_{\rm E} = 0$	100		•	v
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10 \text{mA}, R_{BE} = \infty$	80			V

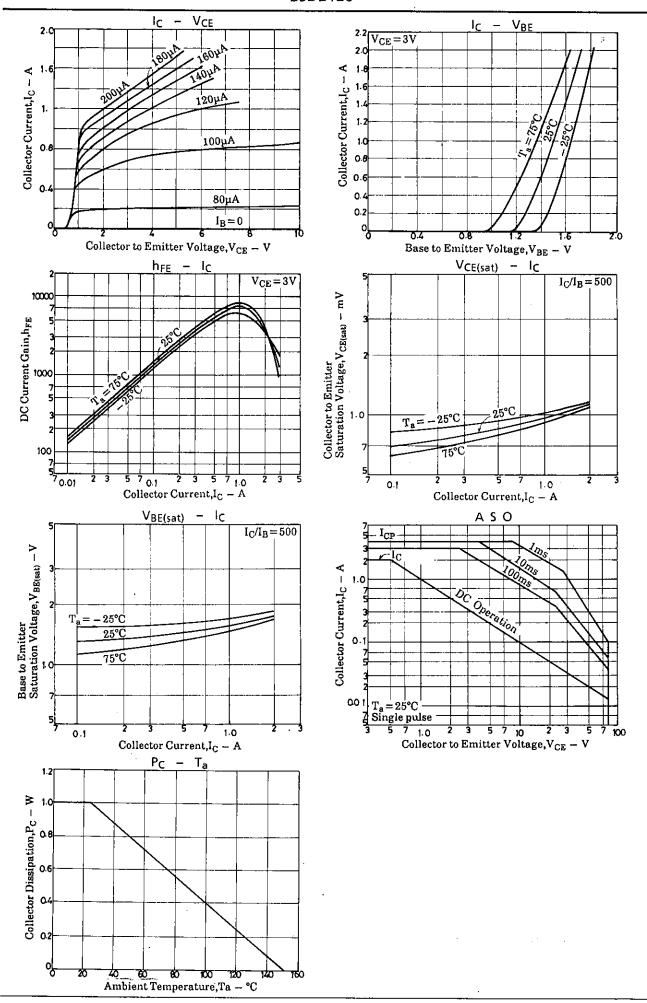
Electrical Connection



Unit (Resistance : Ω)

Package Dimensions 2064 (unit: mm)





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