

<b>SANYO</b>	No.3239	<b>2SD2120</b>
	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

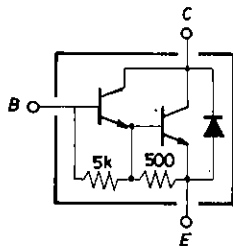
**Absolute Maximum Ratings at Ta = 25°C**

			unit
Collector to Base Voltage	$V_{CB0}$	100	V
Collector to Emitter Voltage	$V_{CEO}$	80	V
Emitter to Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	2	A
Collector Current(Pulse)	$I_{CP}$	4	A
Collector Dissipation	$P_C$	1	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

**Electrical Characteristics at Ta = 25°C**

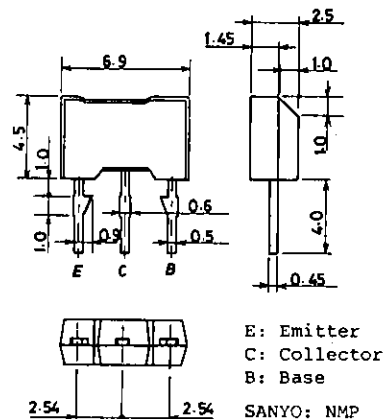
			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 60V, I_E = 0$			10	μA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$			2.5	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 3V, I_C = 500mA$	1000			
	$h_{FE(2)}$	$V_{CE} = 3V, I_C = 1A$	2000	7000	30000	
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 1A, I_B = 2mA$		1.0	1.5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 1A, I_B = 2mA$		1.6	2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E = 0$	100			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10mA, R_{BE} = \infty$	80			V

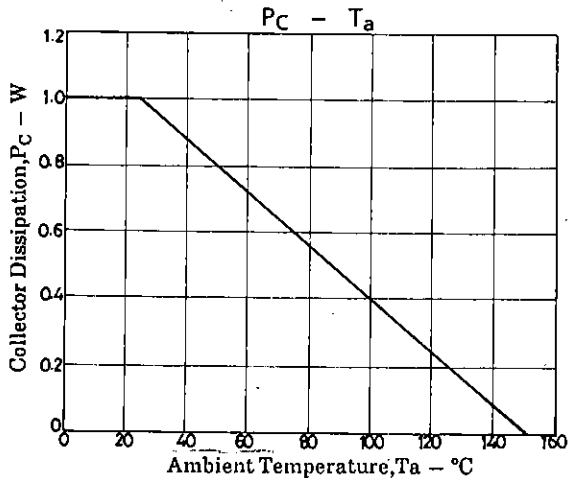
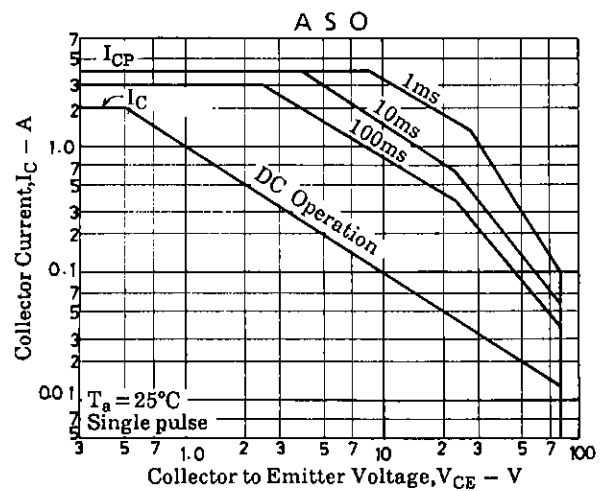
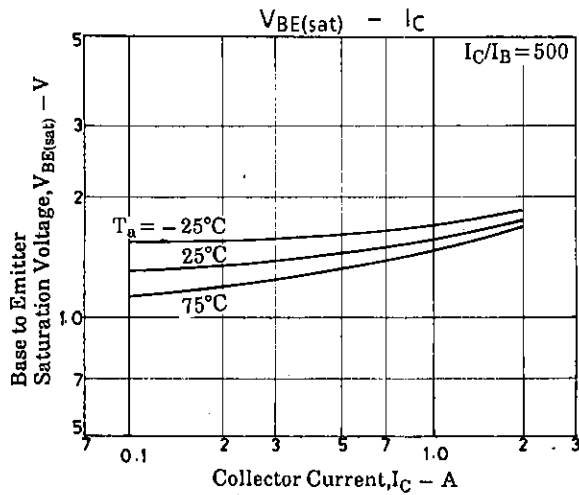
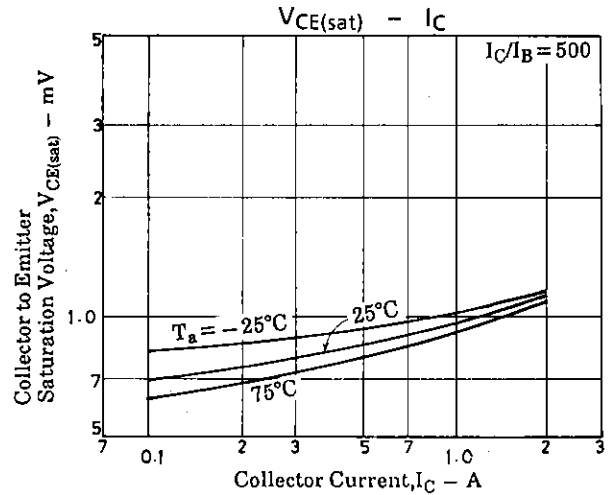
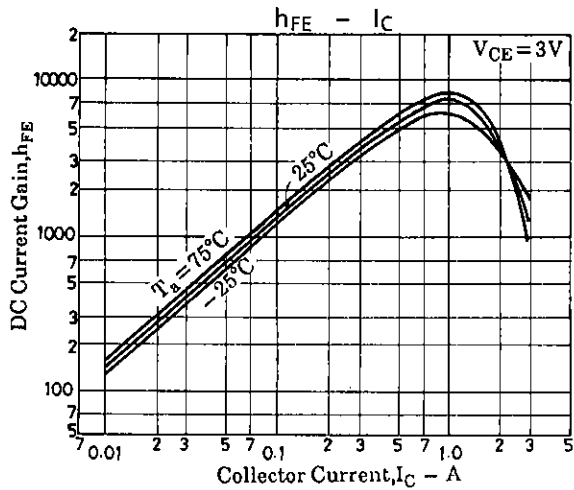
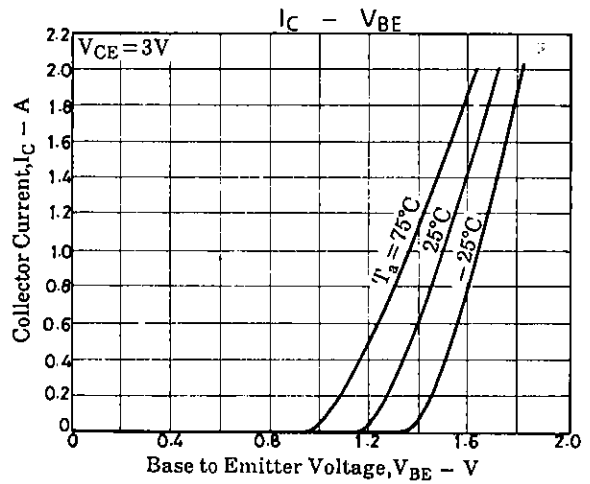
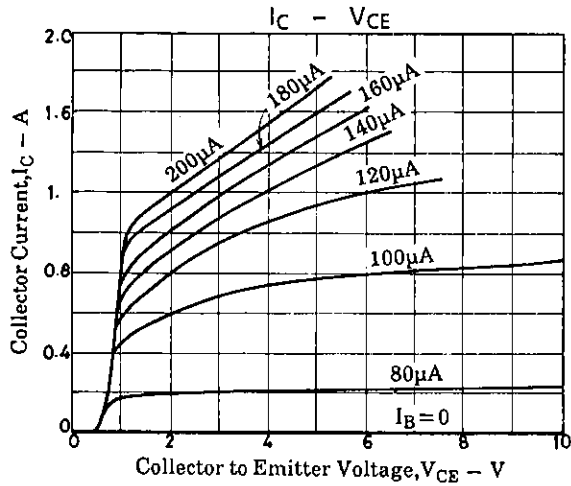
**Electrical Connection**



Unit (Resistance : Ω)

**Package Dimensions 2064**  
(unit: mm)





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