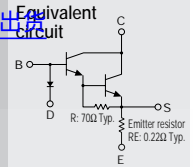


Built-in temperature compensation diodes  
Built-in emitter resistor  
Darlington

# SAP09N

捷多邦, 专业PCB打样工厂, 24小时加急出货



(Complement to type SAP09P)

Application: Audio

■ Absolute maximum ratings (Ta=25°C)

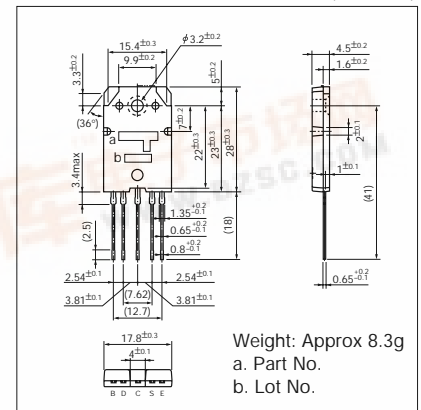
Symbol	Ratings	Unit
VCBO	150	V
VCEO	150	V
VEBO	5	V
IC	10	A
IB	1	A
PC	80 (Tc=25°C)	W
Di IF	10	mA
Tj	150	°C
Tstg	-40 to +150	°C

■ Electrical Characteristics (Ta=25°C)

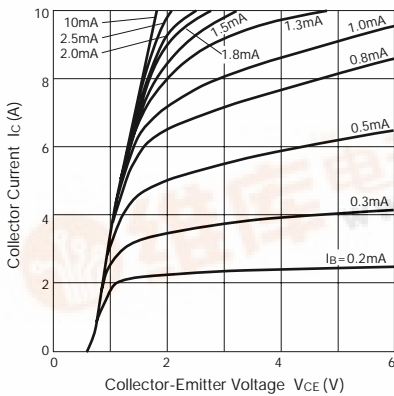
Symbol	Conditions	Ratings			Unit
		min	typ	max	
ICBO	V <sub>CB</sub> = 150V			100	μA
IEBO	V <sub>EB</sub> = 5V			100	μA
VCEO	I <sub>C</sub> = 30mA	150			V
hFE *	V <sub>CE</sub> = 4V, I <sub>C</sub> = 6A	5000		20000	
VCE(sat)	I <sub>C</sub> = 6A, I <sub>B</sub> = 6mA			2.0	V
VBE(sat)	I <sub>C</sub> = 6A, I <sub>B</sub> = 6mA			2.5	V
VBE	V <sub>CE</sub> = 20V, I <sub>C</sub> = 40mA		1220		mV
Di VF	I <sub>F</sub> = 2.5mA		705		mV
RE	I <sub>E</sub> = 1A	0.176	0.22	0.264	Ω

\*hFE Rank  $\bar{O}$  (5000 to 12000), Y (8000 to 20000)

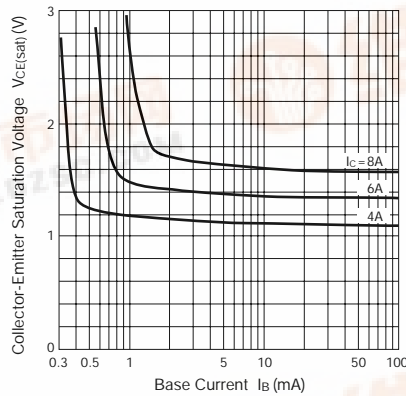
External Dimensions (Unit: mm)



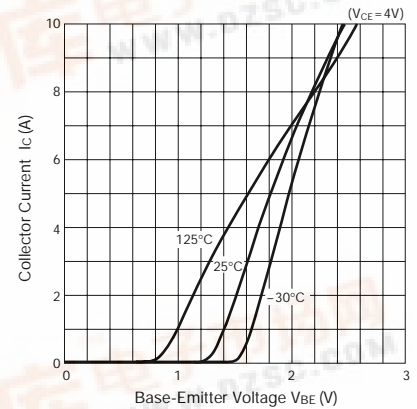
IC - VCE Characteristics (Typical)



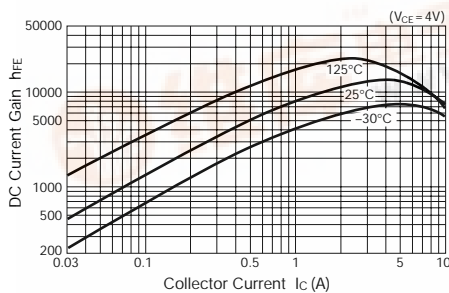
VCE(sat) - IB Characteristics (Typical)



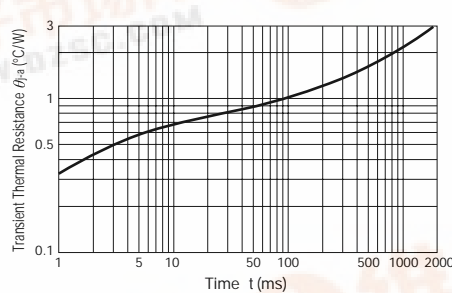
IC - VBE Temperature Characteristics



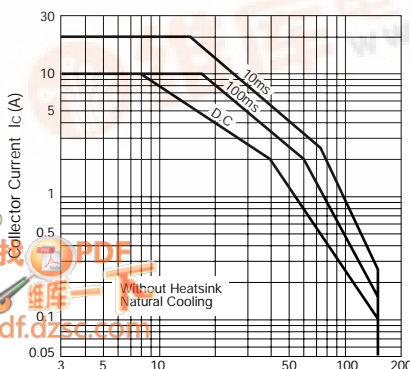
hFE - IC Characteristics (Typical)



θja - t Characteristics



Safe Operating Area (Single Pulse)



Pc - Ta Derating

