

SMA4030

查询SMA4030供应商

PNP Darlington

捷多邦，专业PCB打样工厂，24小时加急出货

General purpose

External dimensions **B**... SMA

Absolute maximum ratings

(Ta=25°C)

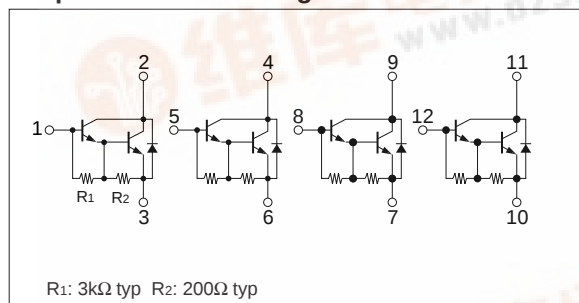
Symbol	Ratings	Unit
V _{CB0}	120	V
V _{CEO}	100	V
V _{EBO}	6	V
I _C	3	A
I _{CP}	5 (PW≤1ms, Du≤50%)	A
I _B	0.2	A
P _T	4 (Ta=25°C) 20 (Tc=25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

(Ta=25°C)

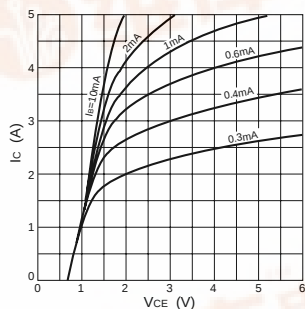
Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CBO}			10	μA	V _{CB} =120V
I _{EBO}			10	mA	V _{EB} =6V
V _{CEO}	100			V	I _C =25mA
h _{FE}	2000	6000	15000		V _{CE} =4V, I _C =1.5A
V _{CE(sat)}		1.1	1.5	V	I _C =1.5A, I _B =3mA
V _{BE(sat)}		1.7	2.0	V	
t _{on}		0.5		μs	V _{CC} ≐30V
t _{stg}		2.2		μs	I _C =1.5A
t _f		0.9		μs	I _{B1} =-I _{B2} =3mA
f _T		40		MHz	V _{CE} =12V, I _E =-0.5A
C _{ob}		30		pF	V _{CB} =10V, f=1MHz

Equivalent circuit diagram

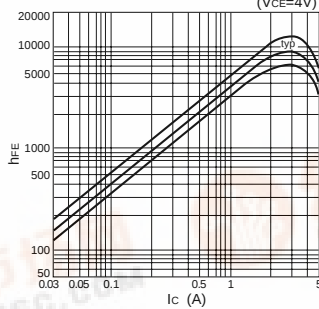


Characteristic curves

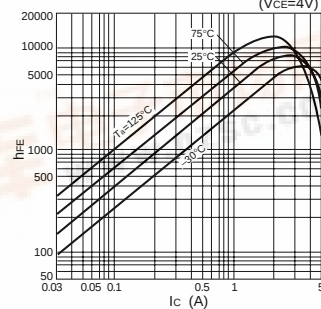
I_C-V_{CE} Characteristics (Typical)



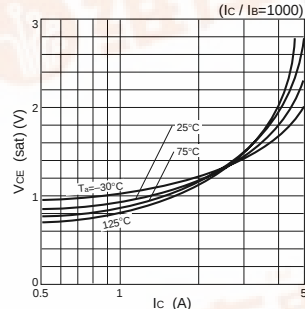
h_{FE}-I_C Characteristics (Typical)



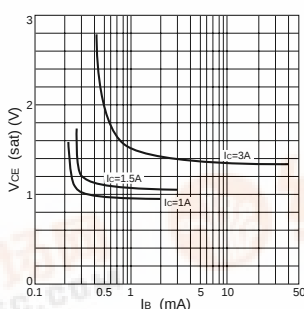
h_{FE}-I_C Temperature Characteristics (Typical)



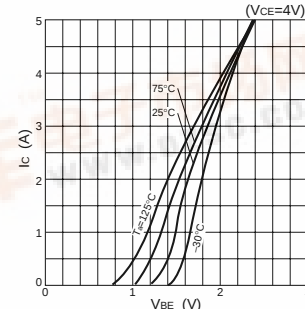
V_{CE(sat)}-I_C Temperature Characteristics (Typical)



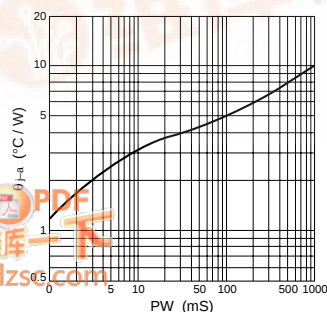
V_{CE(sat)}-I_B Characteristics (Typical)



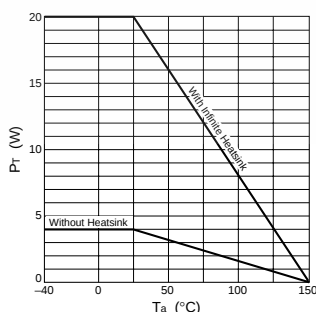
I_C-V_{BE} Temperature Characteristics (Typical)



θ_{JA}-PW Characteristics



P_T-T_a Characteristics



Safe Operating Area (SOA)

