

STA481A

查询STA481(供应商)

NPN Darlington 捷多邦, 专业PCB打样工厂, 24小时加急出货

With built-in avalanche diode

External dimensions  STA400

Absolute maximum ratings

(Ta=25°C)

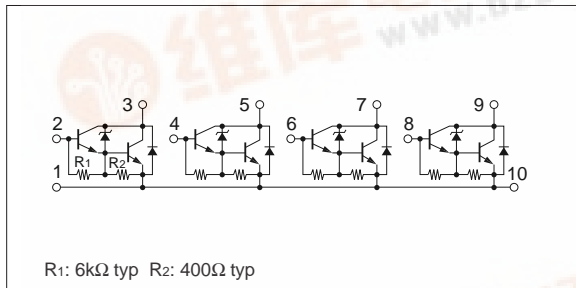
Symbol	Ratings	Unit
V _{CB0}	60±10	V
V _{CEO}	60±10	V
V _{EBO}	6	V
I _c	1	A
I _{CP}	2.5 (PW≤1ms, Du≤25%)	A
I _B	0.5	A
P _T	4 (Ta=25°C) 16 (Tc=25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

(Ta=25°C)

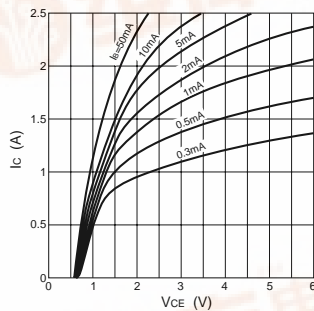
Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CB0}			10	μA	V _{CB} =50V
I _{EBO}			3	mA	V _{EB} =6V
V _{CEO}	50	60	70	V	I _c =1mA
h _{FE}	2000	5000	10000		V _{CE} =4V, I _c =0.5A
V _{CE(sat)}		1.0	1.5	V	I _c =0.5A, I _B =1mA
V _{BE(sat)}		1.6	2.2	V	
V _{FEC}		1.4	1.8	V	I _{FEC} =0.5A
t _{on}		0.5		μs	V _{CC} ≐30V,
t _{stg}		2.5		μs	I _c =0.5A,
t _f		1.0		μs	I _{B1} =-I _{B2} =1mA
f _T		50		MHz	V _{CE} =12V, I _E =-0.1A
C _{ob}		14		pF	V _{CB} =10V, f=1MHz

Equivalent circuit diagram

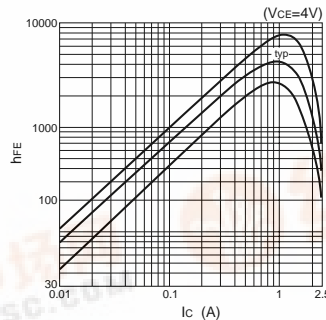


Characteristic curves

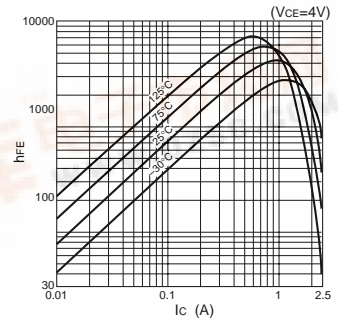
I_c-V_{CE} Characteristics (Typical)



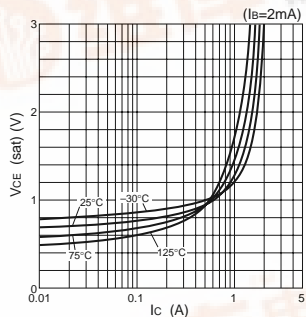
h_{FE}-I_c Characteristics (Typical)



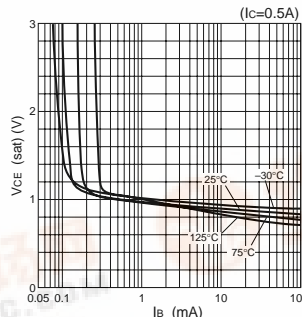
h_{FE}-I_c Temperature Characteristics (Typical)



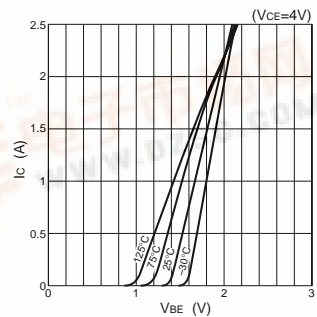
V_{CE(sat)}-I_c Temperature Characteristics (Typical)



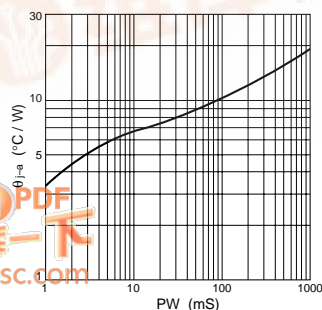
V_{CE(sat)}-I_B Temperature Characteristics (Typical)



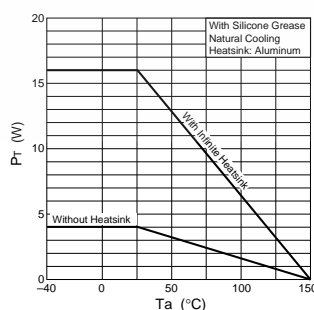
I_c-V_{BE} Temperature Characteristics (Typical)



θ_{j-a}-PW Characteristics



P_T-T_a Characteristics



Safe Operating Area (SOA)

