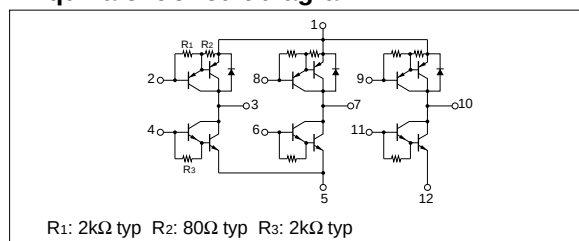


Absolute maximum ratings

($T_a=25^{\circ}\text{C}$)

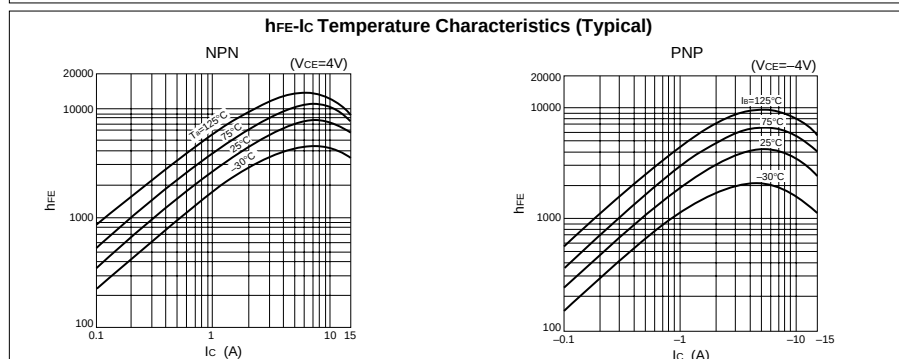
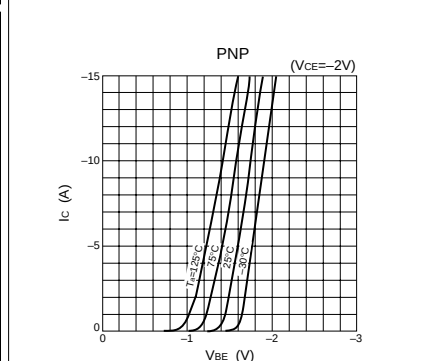
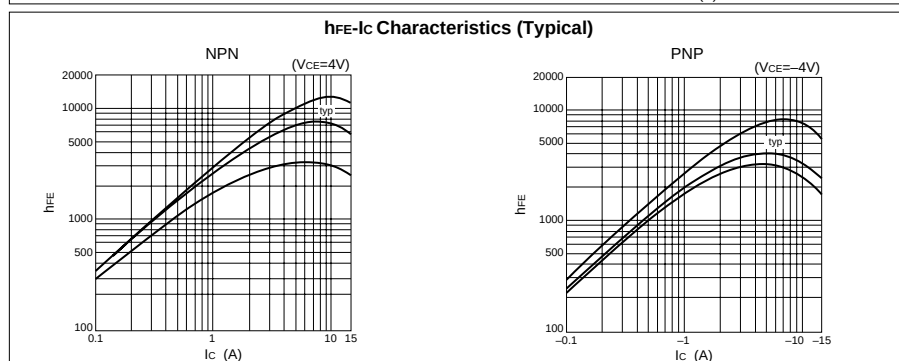
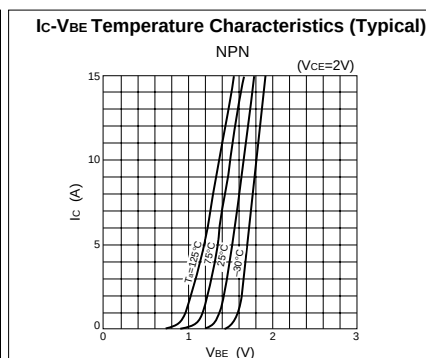
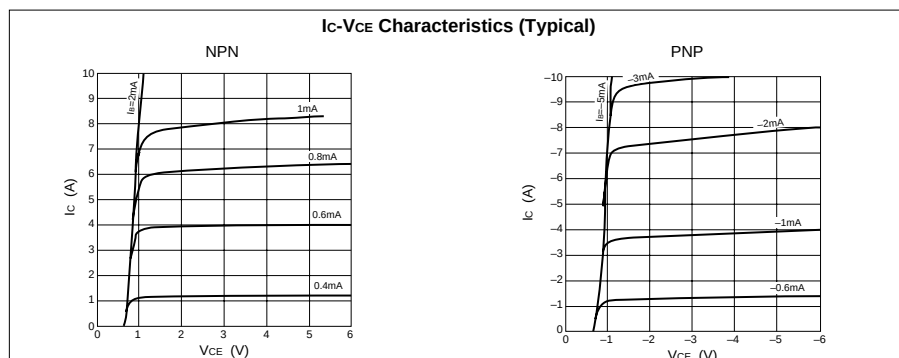
Symbol	Ratings		Unit
	NPN	PNP	
V _{CB0}	60	−60	V
V _{CE0}	60	−60	V
V _{EB0}	6	−6	V
I _C	10	−10	A
I _{CP}	15 (PW≤1ms, D _u ≤50%)	−15 (PW≤1ms, D _u ≤50%)	A
I _{FEC}	—	−10	A
I _{FECp}	—	−15	A
I _B	0.5	−0.5	A
P _T	5 (T _a =25°C)		W
	35 (T _c =25°C)		
V _{ISO}	1000 (Between fin and lead pin, AC)		V _{rms}
T _j	150		°C
T _{stg}	−40 to +150		°C
θ _{J-C}	3.57		°C/W

■Equivalent circuit diagram



Characteristic curves

Characteristic curves

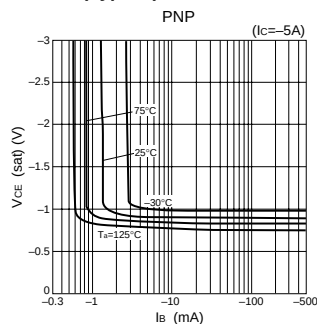
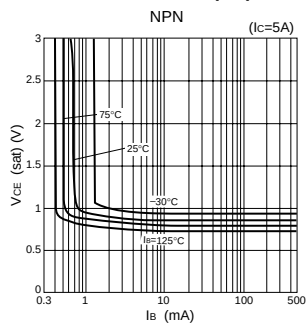
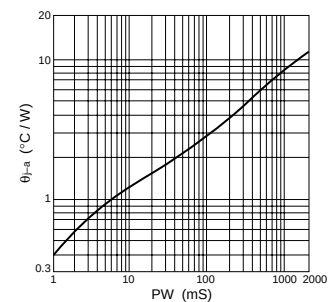
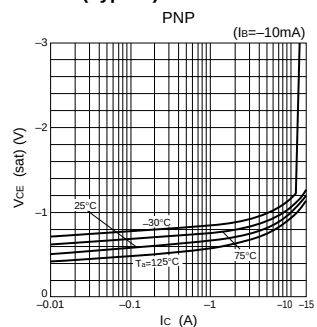
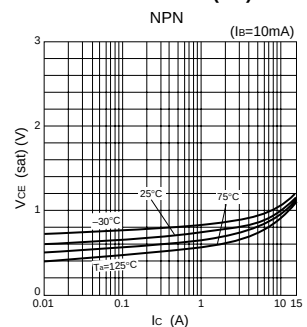


Electrical characteristics

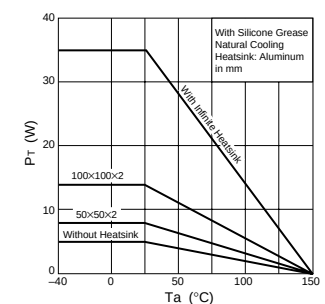
(T_a=25°C)

Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
I _{CBO}			10	μA	V _{CB} =60V			-10	μA	V _{CB} =-60V
I _{EBO}			10	μA	V _{EB} =6V			-10	mA	V _{EB} =-6V
V _{CEO}	60			V	I _C =10mA	-60			V	I _C =-10mA
h _{FE}	2000	5000	12000		V _{CE} =4V, I _C =6A	2000	5000	12000		V _{CE} =-4V, I _C =-6A
V _{CE(sat)}			1.5	V	I _C =6A, I _B =12mA			-1.5	V	I _C =-6A, I _B =-12mA
V _{BE(sat)}			2.0	V				-2.0	V	
V _{FEC}		—		V				2.0	V	I _{FEC} =-6A
t _{rr}		—		μs			4.0		μs	I _{FEC} =±0.5A
t _{on}		0.6		μs	V _{CC} ≐24V, I _C =6A, I _{B1} =-I _{B2} =12mA		0.7		μs	V _{CC} ≐-24V, I _C =-6A, I _{B1} =-I _{B2} =-12mA
t _{stg}		2.0		μs			1.2		μs	
t _f		1.5		μs			0.7		μs	
f _T		50		MHz	V _{CE} =12V, I _E =-1A		50		MHz	V _{CE} =-12V, I _E =1A
C _{ob}		100		pF	V _{CB} =10V, f=1MHz		180		pF	V _{CB} =-10V, f=1MHz

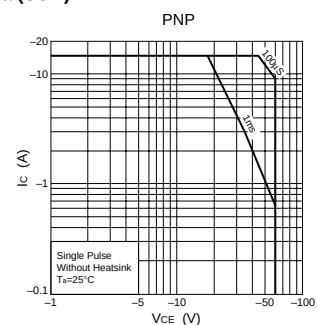
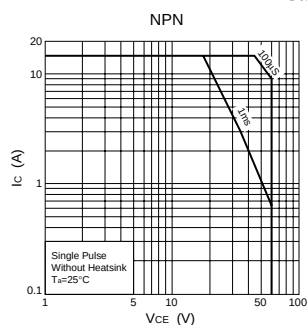
Characteristic curves

V_{CE(sat)}-I_B Temperature Characteristics (Typical)θ_{JA}-a-PW CharacteristicsV_{CE(sat)}-I_C Temperature Characteristics (Typical)

Pr-Ta Characteristics



Safe Operating Area (SOA)



AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com