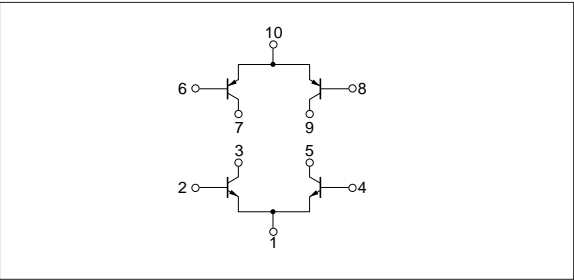


Absolute maximum ratings

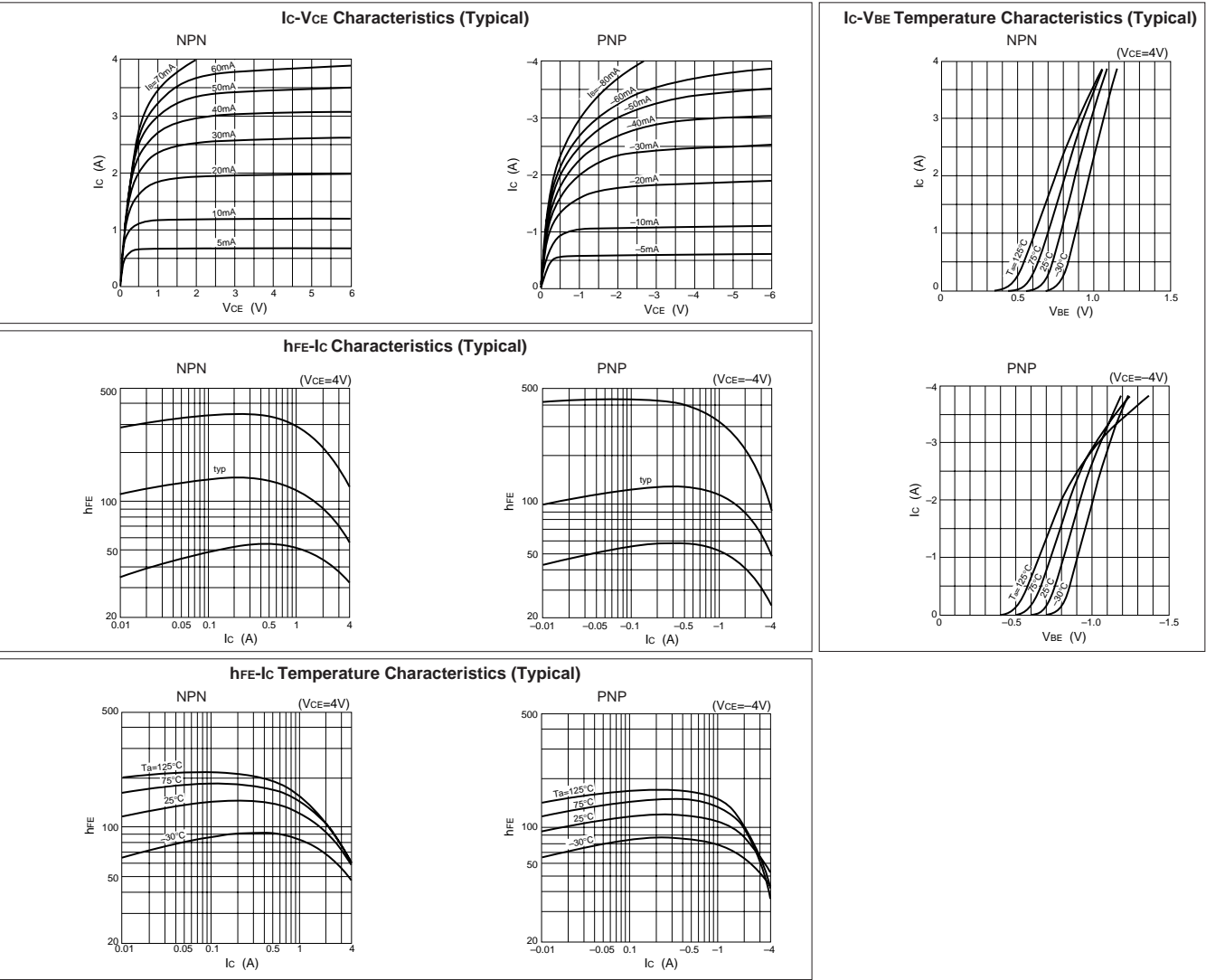
(T_a=25°C)

Symbol	Ratings		Unit
	NPN	PNP	
V _{CBO}	60	−60	V
V _{CEO}	60	−60	V
V _{EBO}	6	−6	V
I _C	3	−3	A
I _{CP}	6 (PW≤10ms, Du≤50%)	−6 (PW≤10ms, Du≤50%)	A
P _T	4 (T _a =25°C)		W
	20 (T _c =25°C)		
T _j	150		°C
T _{stg}	−40 to +150		°C

Equivalent circuit diagram



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}			100	μA	V _{CB} =60V			-100	μA	V _{CB} =-60V
I _{EBO}			100	μA	V _{EB} =6V			-100	μA	V _{EB} =-6V
V _{CEO}	60			V	I _C =25mA	-60			V	I _C =-25mA
h _{FE}	40				V _{CE} =4V, I _C =1A	40				V _{CE} =-4V, I _C =-1A
V _{CE(sat)}			1.0	V	I _C =2A, I _B =0.2A			-1.0	V	I _C =-2A, I _B =-0.2A
t _{on}		0.2		μs	V _{CC} ≐12V, I _C =2A, I _{B1} =-I _{B2} =0.2A		0.25		μs	V _{CC} ≐12V, I _C =-2A, I _{B1} =-I _{B2} =-0.2A
t _{stg}		1.0		μs			0.75		μs	
t _f		0.3		μs			0.25		μs	

Characteristic curves

