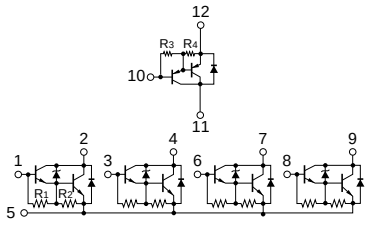
Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings		Unit
	NPN	PNP	
V_{CBO}	100±15	–60	V
V_{CEO}	100±15	–60	V
V_{EBO}	6	–6	V
I_{CP}	1.5	–3	A
I_B	0.5	–0.5	A
P_T	4 (Ta=25°C)		W
	20 (Tc=25°C)		
T_j	150		°C
T_{stg}	–40 to +150		°C

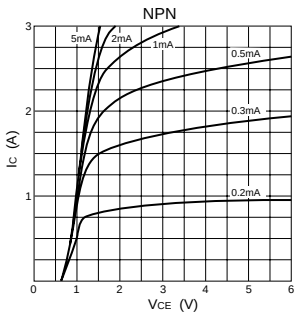
■Equivalent circuit diagram

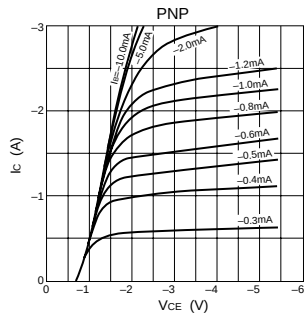


R_1: 4kΩ typ R_2: 150Ω typ R_3: 4kΩ typ R_4: 100Ω typ

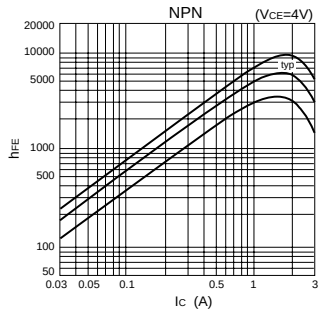
Characteristic curves

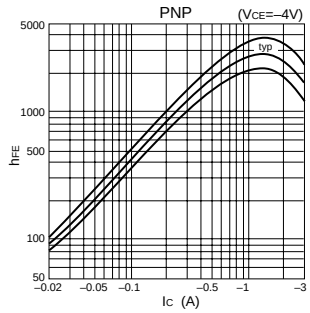
I_C-V_{CE} Characteristics (Typical)



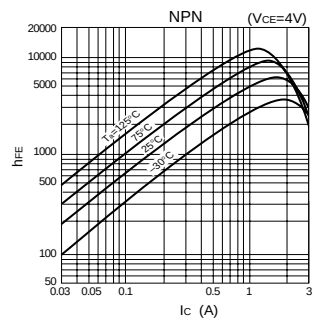


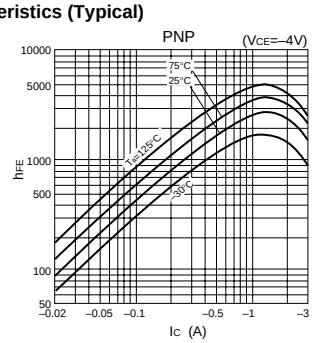
h_{FE}-I_C Characteristics (Typical)



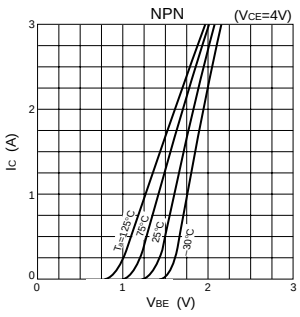


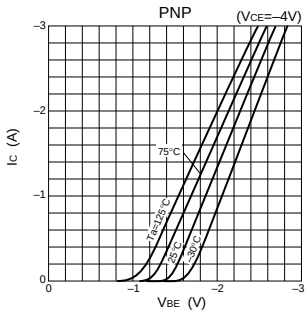
h_{FE}-I_C Temperature Characteristics (Typical)





I_C-V_{BE} Temperature Characteristics (Typical)





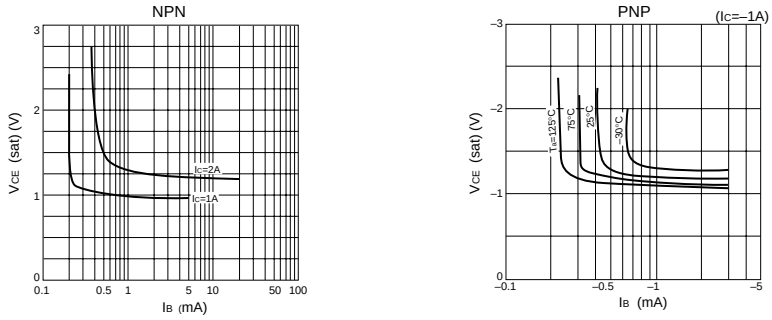
Electrical characteristics

(T_a=25°C)

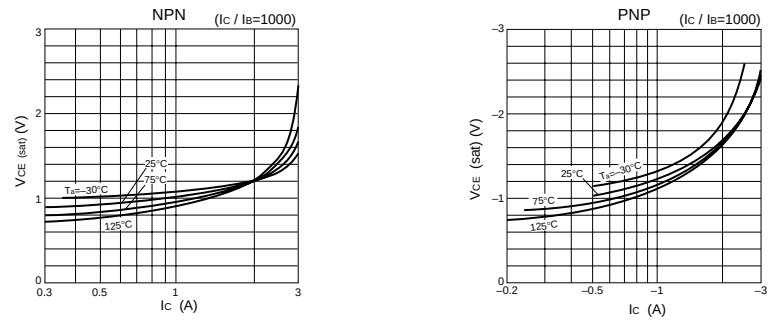
Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
I_{CBO}			10	μA	V_{CB}=85V			–10	μA	V_{CB}=–60V
I_{EBO}			5	mA	V_{EB}=6V			–10	mA	V_{EB}=–6V
V_{CEO}	85	100	115	V	I_C=10mA	–60			V	I_C=–10mA
h_{FE}	2000				V_{CE}=4V, I_C=1A	2000				V_{CE}=–4V, I_C=–1A
V_{CE}(sat)			1.5	V	I_C=1A, I_B=2mA			–1.5	V	I_C=–1A, I_B=–2mA

Characteristic curves

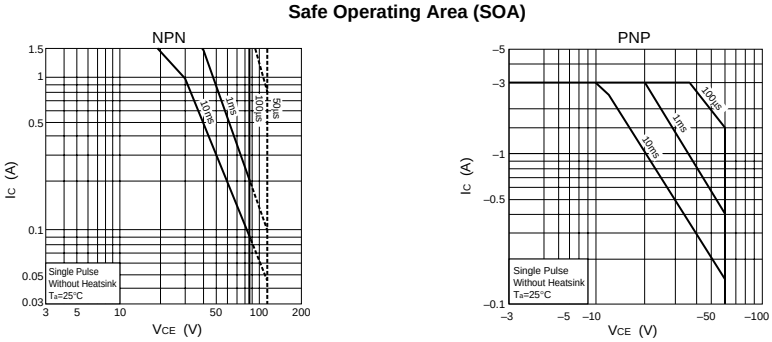
V_{CE}(sat)-I_B Characteristics (Typical)



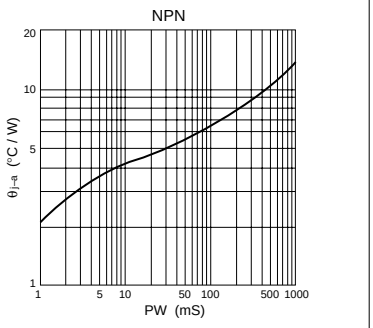
V_{CE}(sat)-I_C Temperature Characteristics (Typical)

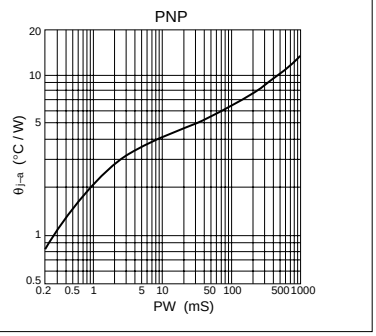


Safe Operating Area (SOA)



$\theta_{j\text{-}a}$-PW Characteristics





P_T-T_a Characteristics

