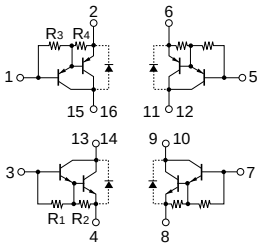
Absolute maximum ratings

(Ta=25°C)

Symbol	Specification		Unit
	NPN	PNP	
V_{CBO}	100	–60	V
V_{CEO}	100	–60	V
V_{EBO}	6	–6	V
I_C	1.5	–1.5	A
I_{CP}	2.5 (PW≤1ms, Du≤100%)	–2.5 (PW≤1ms, Du≤10%)	A
I_B	0.1	–0.1	A
P_T	3 (Ta=25°C)		W
T_j	150		°C
T_{stg}	–40 to +150		°C
θ_{j-a}	41.6		°C/W

■Equivalent circuit diagram

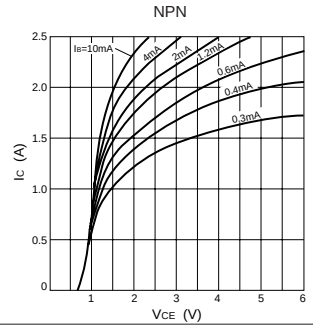


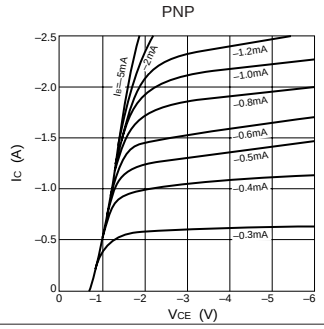
R3: 4kΩ typ
R4: 100Ω typ

R1: 4kΩ typ
R2: 200Ω typ

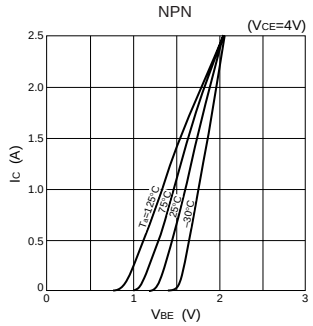
Characteristic curves

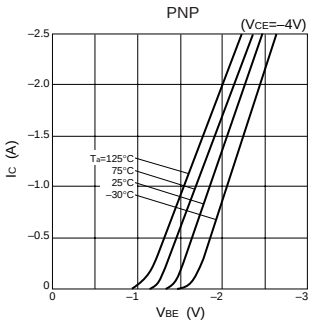
IC-VCE Characteristics (Typical)



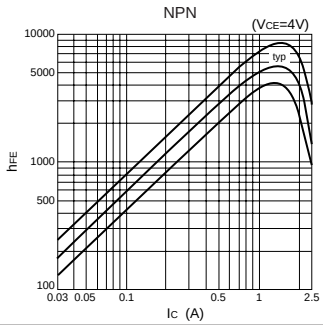


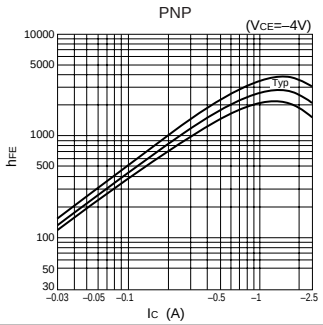
IC-VBE Temperature Characteristics (Typical)



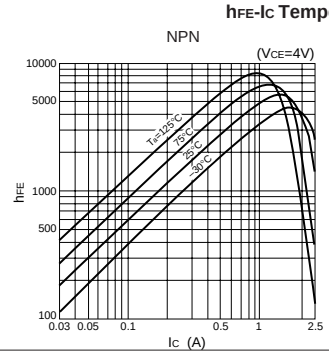


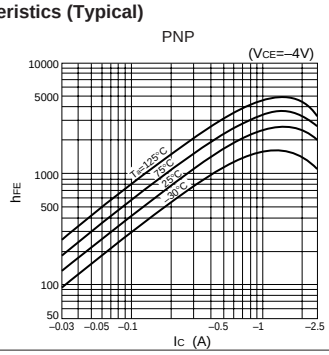
hFE-IC Characteristics (Typical)





hFE-IC Temperature Characteristics (Typical)





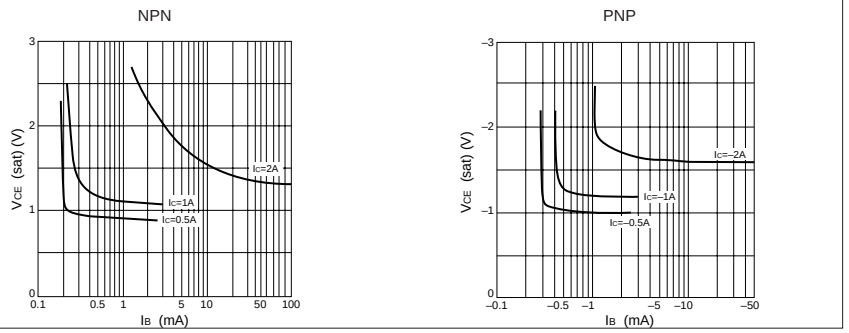
Electrical characteristics

(Ta=25°C)

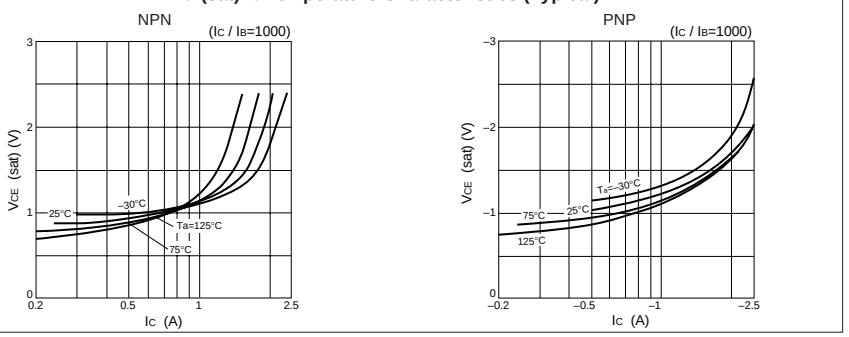
Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
I_{CBO}			10	μA	V_{CB}=100V			–10	μA	V_{CB}=–60V
I_{EBO}			3	mA	V_{EB}=6V			–3	mA	V_{EB}=–6V
V_{CEO}	100			V	I_C=10mA	–60			V	I_C=–10mA
h_{FE}	2000		12000		V_{CE}=4V, I_C=1A	2000		12000		V_{CE}=–4V, I_C=–1A
V_{CE}(sat)			1.3	V	I_C=1A, I_B=2mA			–1.4	V	I_C=–1A, I_B=–2mA
V_{BE}(sat)			2.2	V				–2.2	V	

Characteristic curves

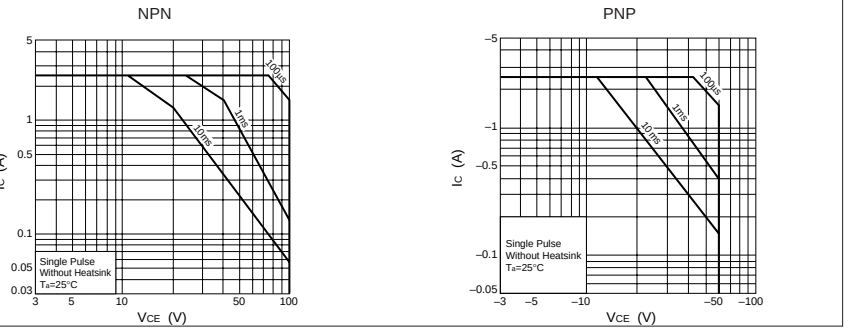
V_{CE}(sat)-I_B Characteristics (Typical)



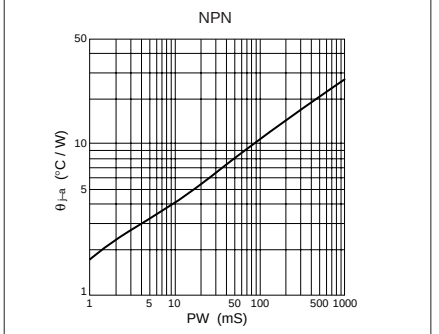
V_{CE}(sat)-I_C Temperature Characteristics (Typical)

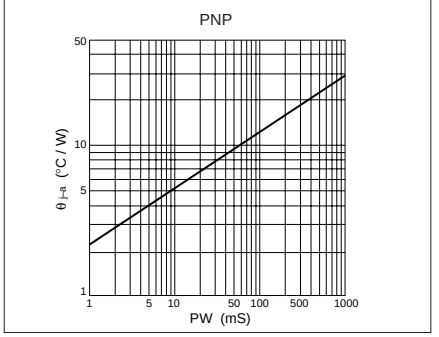


Safe Operating Area (SOA)



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





P_T-Ta Characteristics

