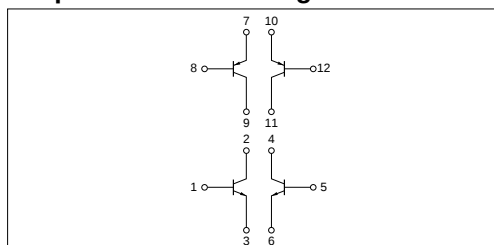


Absolute maximum ratings

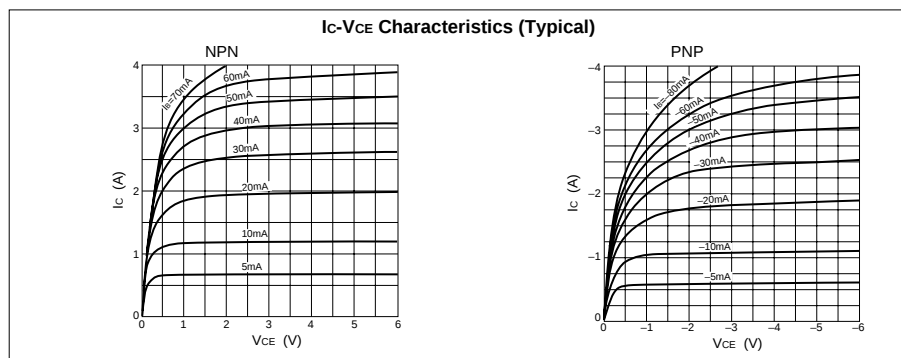
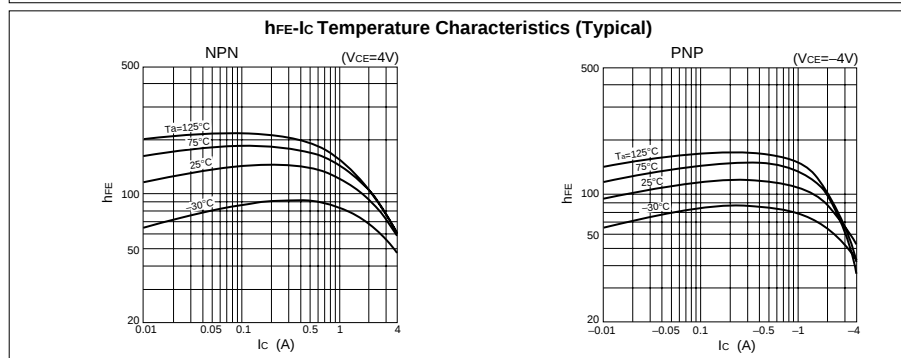
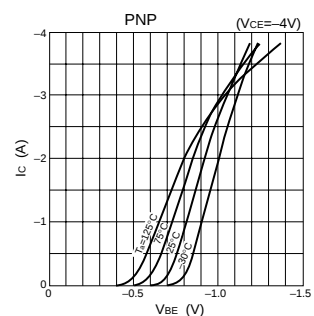
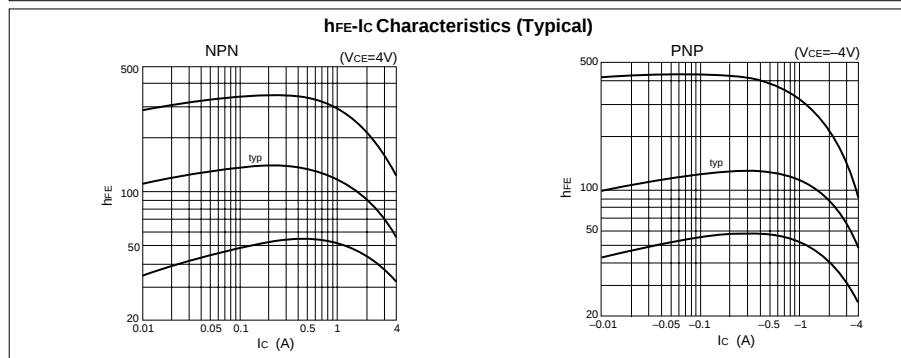
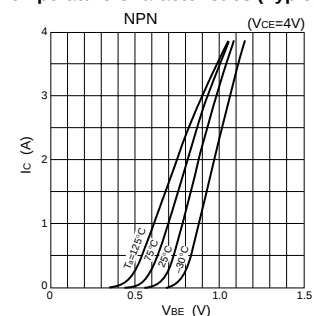
(Ta=25°C)

Symbol	Ratings		Unit
	NPN	PNP	
V _{CBO}	60	−60	V
V _{CEO}	60	−60	V
V _{EBO}	6	−6	V
I _C	4	−4	A
I _{CP}	6 (PW≤1ms, D _u ≤50%)	−6 (PW≤1ms, D _u ≤50%)	A
I _B	1	−1	A
P _T	5 (T _a =25°C)		W
	25 (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}	5		°C/W

Equivalent circuit diagram



Characteristic curves

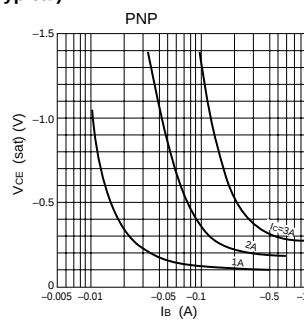
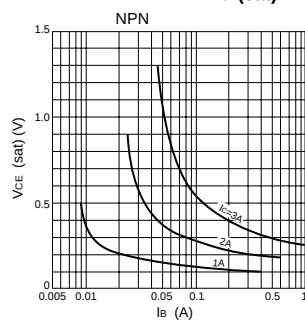
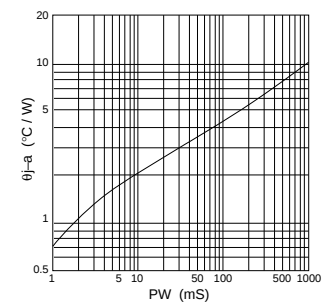
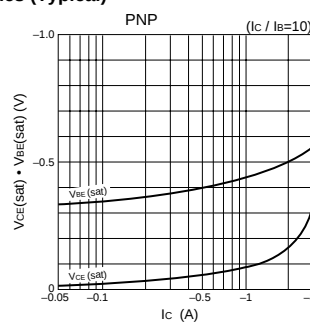
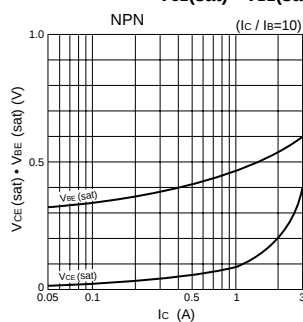
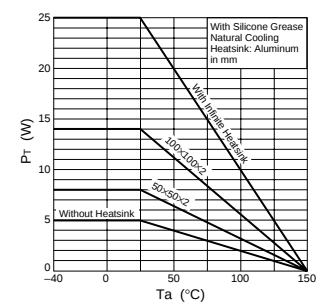
**I_C-V_{BE} Temperature Characteristics (Typical)**

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} =60V			-10	μA	V _{CB} =-60V
I _{EBO}			10	μA	V _{EB} =6V			-10	μA	V _{EB} =-6V
V _{CEO}	60			V	I _C =25mA	-60			V	I _C =-25mA
h _{FE}	80				V _{CE} =4V, I _C =1A	80				V _{CE} =-4V, I _C =-1A
V _{CE(sat)}			0.6	V	I _C =2A, I _B =0.2A			-0.6	V	I _C =-2A, I _B =-0.2A

Characteristic curves

V_{CE(sat)}-I_B Characteristics (Typical)θ_{JA}-PW CharacteristicsV_{CE(sat)} • V_{BE(sat)}-I_C Characteristics (Typical)P_T-T_a Characteristics

Safe Operating Area (SOA)

