

Absolute maximum ratings

(T_a=25°C)

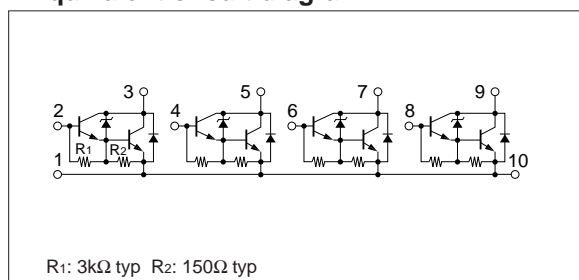
Symbol	Ratings	Unit
V _{CB0}	60±10	V
V _{CEO}	60±10	V
V _{EB0}	6	V
I _C	6	A
I _B	1	A
P _T	4 (T _a =25°C) 20 (T _c =25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

(T_a=25°C)

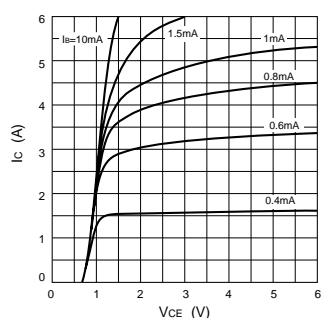
Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CB0}			10	μA	V _{CB} =50V
I _{EB0}			10	mA	V _{EB} =6V
V _{CEO}	50	60	70	V	I _C =50mA
h _{FE}	2000		15000		V _{CE} =2V, I _C =3A
V _{CE(sat)}			1.5	V	I _C =3A, I _B =10mA
V _{BE(sat)}			2.0	V	
E _{S/B}	200			mJ	V _{CC} =20V, L=10mH, I _C =6.4A

Equivalent circuit diagram

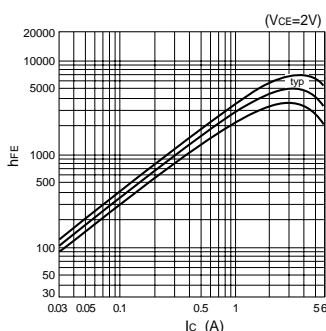


Characteristic curves

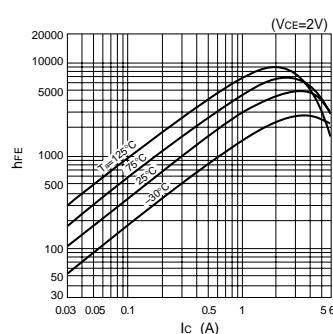
I_C-V_{CE} Characteristics (Typical)



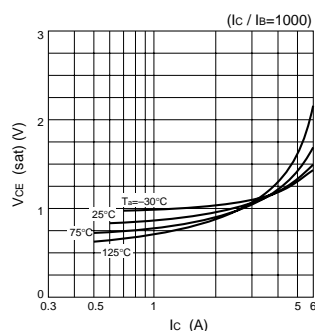
h_{FE}-I_C Characteristics (Typical)



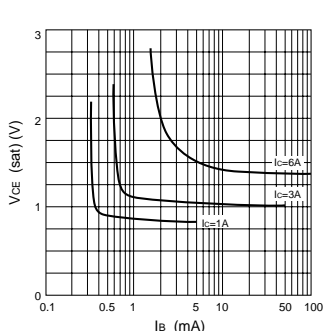
h_{FE}-I_C Temperature Characteristics (Typical)



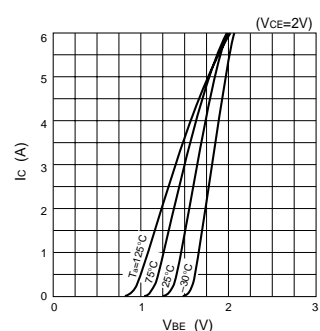
V_{CE(sat)}-I_C Temperature Characteristics (Typical)



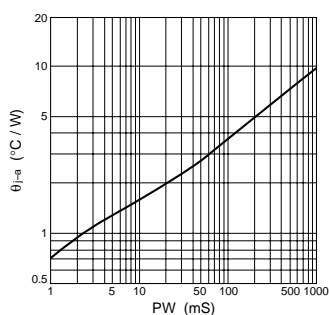
V_{CE(sat)}-I_B Characteristics (Typical)



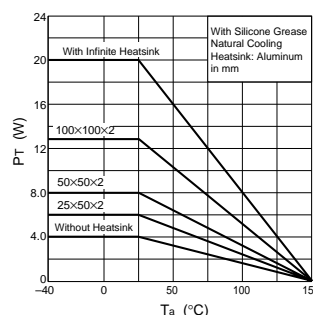
I_C-V_{BE} Temperature Characteristics (Typical)



θ_{J-a}-PW Characteristics



P_T-T_a Characteristics



Safe Operating Area (SOA)

