

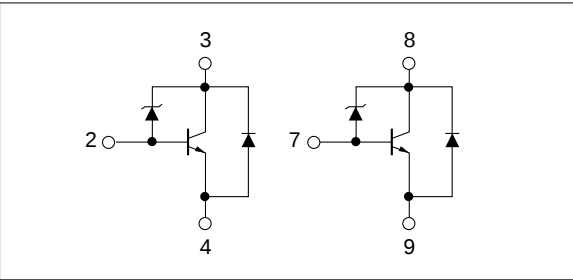
Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	60±10	V
V _{CEO}	60±10	V
V _{EB0}	6	V
I _C	±6	A
I _{CP}	±10 (PW≤1ms, Du≤50%)	A
P _T	3.2 (Ta=25°C) 18 (Tc=25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics (Ta=25°C)

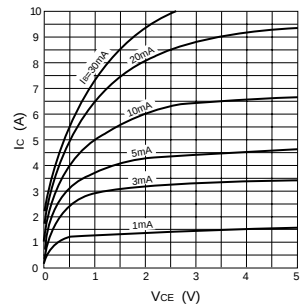
Symbol	Specification			Ratings	Unit
	min	typ	max		
I _{CB0}			10	μA	V _{CB} =50V
I _{EB0}			10	μA	V _{EB} =6V
V _{CEO}	50	60	70	V	I _C =50mA
h _{FE}	700	1500	3000		V _{CE} =1V, I _C =1A
V _{CE(sat)}		0.09	0.15	V	I _C =1.5A, I _B =15mA
V _{FEC}		1.25	1.5	V	I _{FEC} =6A
E _{S/B}	200			mJ	L=10mH, Single pulse

Equivalent circuit diagram

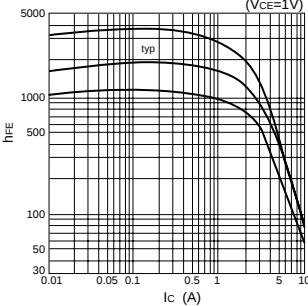


Characteristic curves

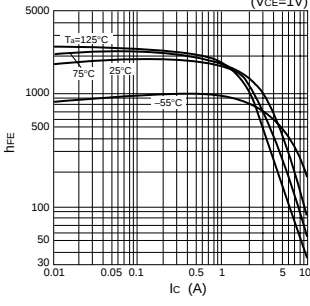
I_C-V_{CE} Characteristics (Typical)



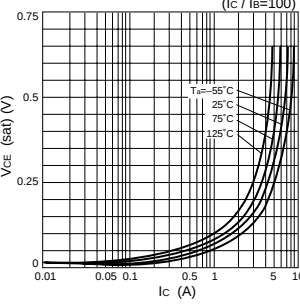
h_{FE}-I_C Characteristics (Typical)



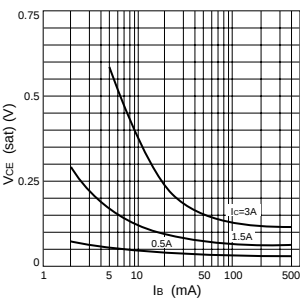
h_{FE}-I_C Temperature Characteristics (Typical)



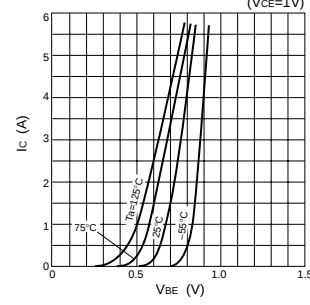
V_{CE(sat)}-I_C Temperature Characteristics (Typical)



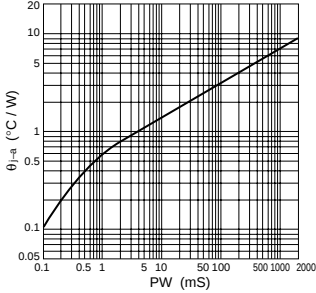
V_{CE(sat)}-I_B Characteristics (Typical)



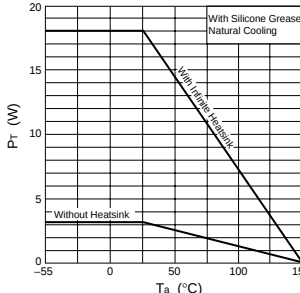
I_C-V_{BE} Temperature Characteristics (Typical)



θ_{J-a}-PW Characteristics



P_T-T_a Characteristics



Safe Operating Area (SOA)

