

Absolute maximum ratings

(Ta=25°C)

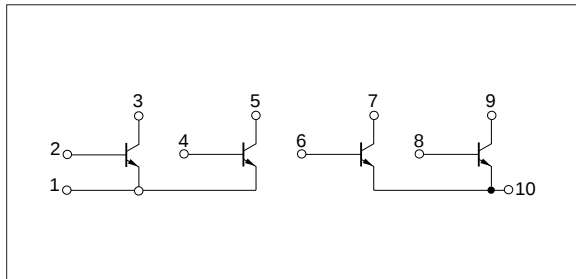
Symbol	Ratings	Unit
V _{CB0}	120	V
V _{CEO}	100	V
V _{EB0}	6	V
I _C	5	A
I _{CP}	8 (PW≤1ms, Du≤25%)	A
I _B	1	A
P _T	4 (Ta=25°C)	W
	20 (Tc=25°C)	
T _J	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

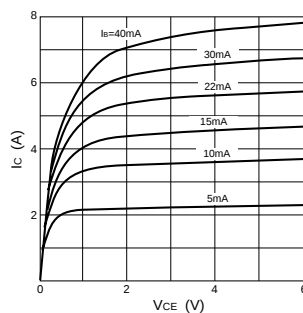
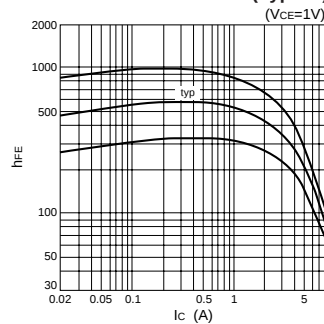
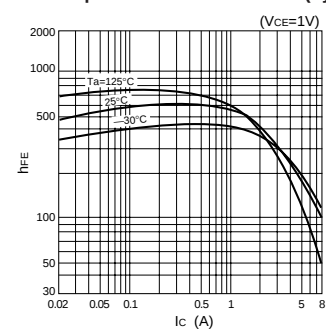
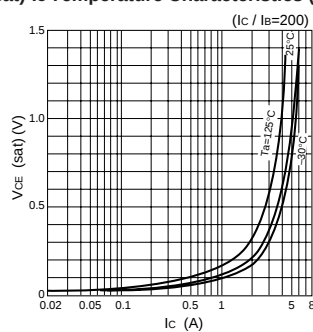
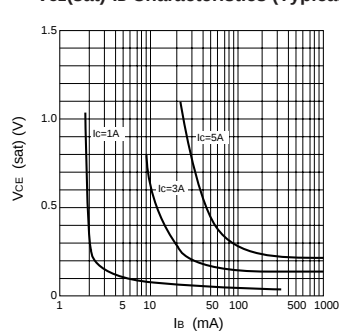
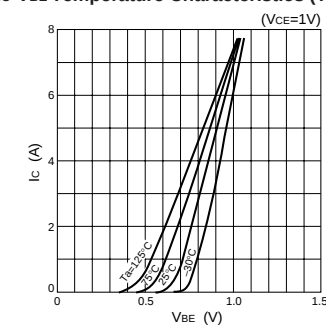
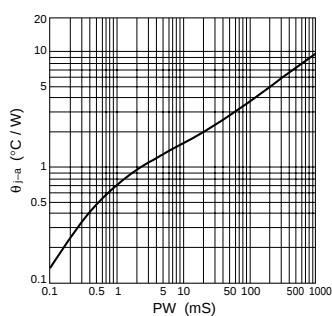
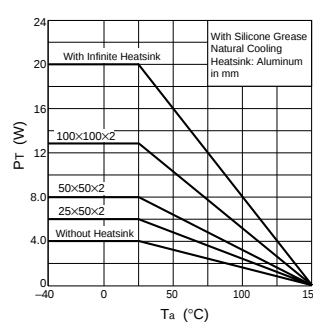
(Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CBO}			10	μA	V _{CB} =120V
I _{EBO}			10	μA	V _{EB} =6V
V _{CER}	100			V	I _{CER} =100μA, R _{BE} =1kΩ
h _{FE}	200	400	1000		V _{CE} =1V, I _C =2A
V _{CE(sat)}		0.25	0.5	V	I _C =2A, I _B =10mA
V _{BE(sat)}		0.9	1.3	V	

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)

