

Absolute maximum ratings

(Ta=25°C)

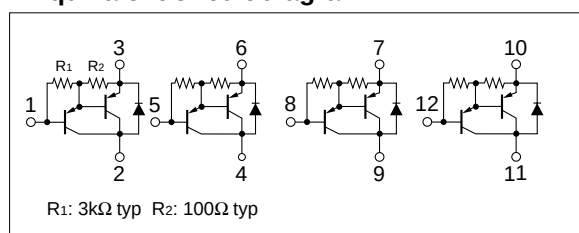
Symbol	Ratings	Unit
V _{CBO}	-100	V
V _{CEO}	-100	V
V _{EB0}	-6	V
I _C	-5	A
I _{CP}	-8 (PW≤1ms, Du≤50%)	A
I _B	-0.5	A
P _T	5 (Ta=25°C)	W
	25 (Tc=25°C)	
V _{ISO}	1000 (Between fin and lead pin, AC)	V _{rms}
T _j	150	°C
T _{stg}	-40 to +150	°C
θ _{j-c}	5	°C/W

Electrical characteristics

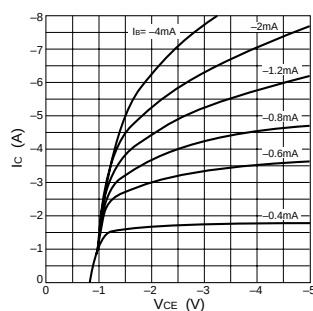
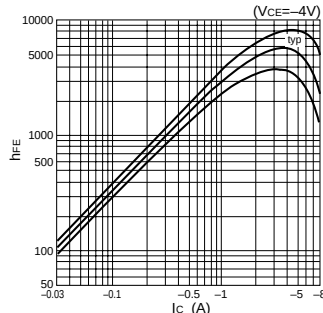
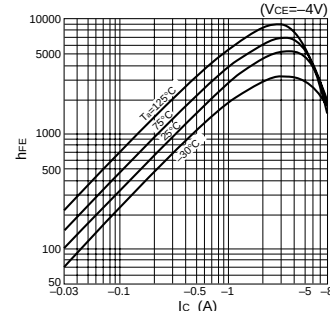
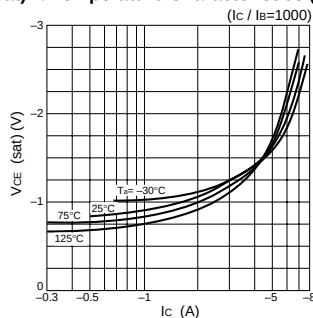
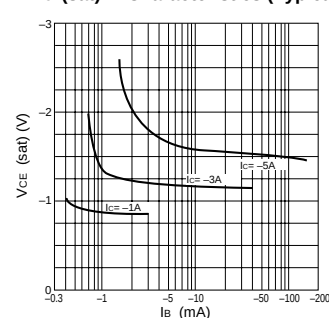
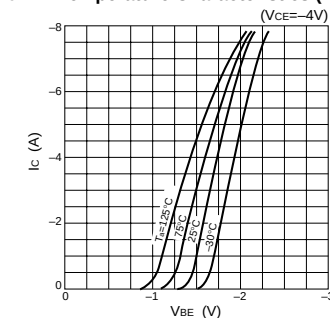
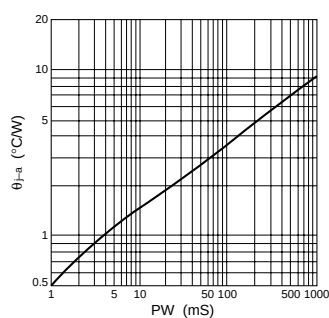
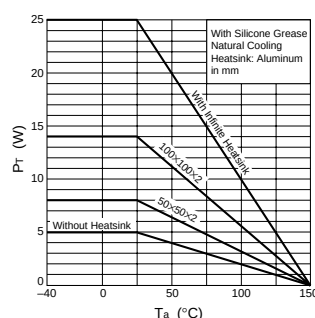
(Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CBO}			-10	μA	V _{CB} =-100V
I _{EBO}			-10	mA	V _{EB} =-6V
V _{CEO}	-100			V	I _C =-10mA
h _{FE}	1000	5000	15000		V _{CE} =-2V, I _C =-3A
V _{CE(sat)}		-1.0	-1.5	V	I _C =-3A, I _B =-6mA
V _{BE(sat)}		-1.6	-2.0	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 CharacteristicsP_T-T_a Characteristics

Safe Operating Area (SOA)

