

Absolute maximum ratings

(Ta=25°C)

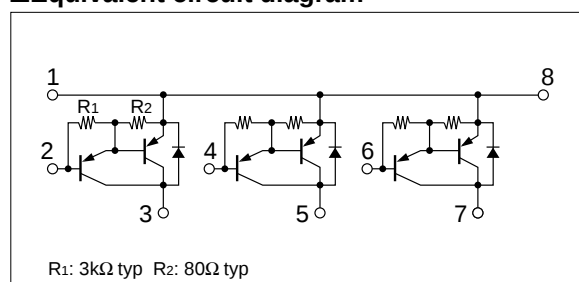
Symbol	Ratings	Unit
V _{CBO}	-250	V
V _{CEO}	-250	V
V _{EB0}	-6	V
I _C	-2.5	A
I _{CP}	-4 (PW≤1mS)	A
I _B	-0.5	A
P _T	3 (Ta=25°C) 15 (Tc=25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C
θ _{j-c}	8.33	°C/W

Electrical characteristics

(Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CBO}			-100	μA	V _{CB} =-250V
I _{EB0}			-10	mA	V _{EB} =-6V
V _{CEO}	-250			V	I _C =-1mA
h _{FE}	1000				V _{CE} =-4V, I _C =-1A
V _{CE(sat)}			-1.5	V	I _C =-2A, I _B =-4mA
V _{BE(sat)}			-2.2	V	
V _{FEC}		1		V	I _{FEC} =1A
ton		0.5		μS	V _{CC} =-100V, I _C =-1A, I _{B1} =-I _{B2} =-10mA
tstg		4		μS	
tr		0.5		μS	
Cob		70		pF	V _{CB} =-10V, f=1MHz

Equivalent circuit diagram



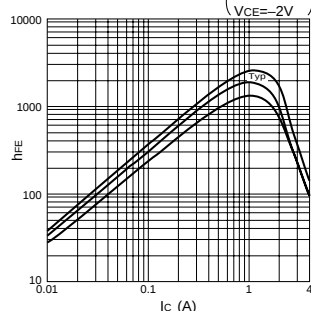
Characteristic curves

I_C-V_{CE} Characteristics (Typical)

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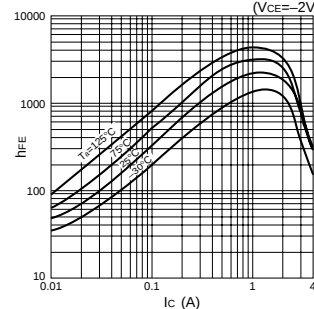
h_{FE}-I_C Characteristics (Typical)

(Ta=25°C, V_{CE}=-2V)



h_{FE}-I_C Temperature Characteristics (Typical)

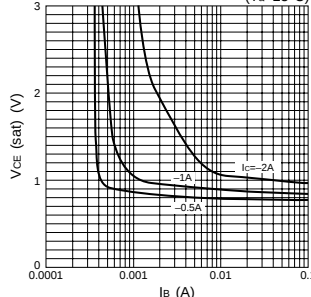
(V_{CE}=-2V)



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

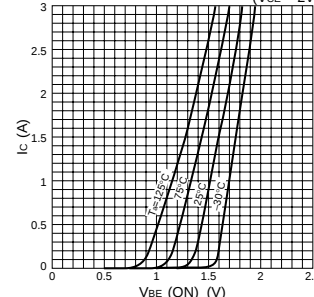
V_{CE(sat)}-I_B Characteristics (Typical)

(Ta=25°C)

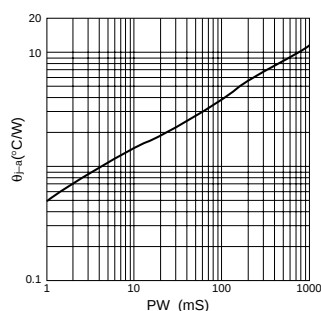


I_C-V_{BE} Temperature Characteristics (Typical)

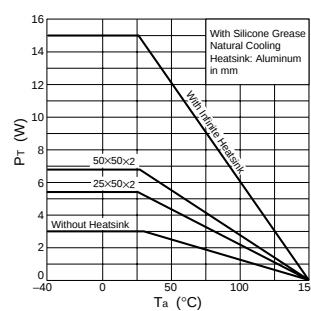
(V_{CE}=-2V)



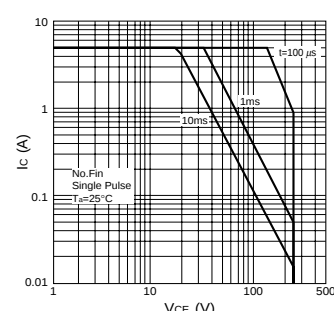
θ_{j-a}-PW Characteristics



P_T-Ta Characteristics



Safe Operating Area (SOA)



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