

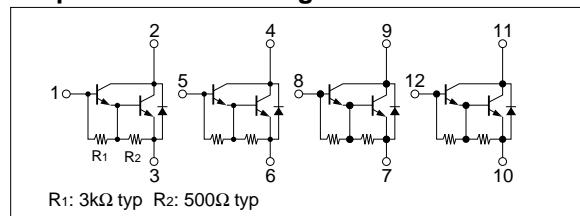
Absolute maximum ratings

Symbol	Ratings	(Ta=25°C)	Unit
V _{CBO}	120		V
V _{CEO}	100		V
V _{EBO}	6		V
I _c	4		A
I _{CP}	6 (PW≤1ms, Du≤50%)		A
I _B	0.5		A
P _T	5 (Ta=25°C) 25 (Tc=25°C)		W
V _{iso}	1000 (Between fin and lead pin, AC)		Vrms
T _j	150		°C
T _{stg}	-40 to +150		°C
θ _{j-c}	5		°C/W

Electrical characteristics

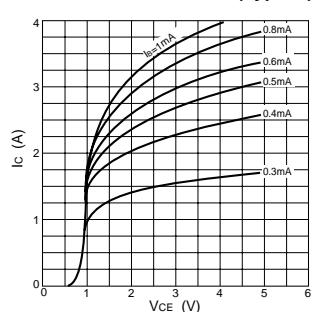
Symbol	Specification			Unit	Conditions
	min	typ	max		
I _{CBO}			10	μA	V _{CB} =120V
I _{EBO}			10	mA	V _{EB} =6V
V _{CEO}	100			V	I _c =10mA
h _{FE}	2000				V _{CE} =4V, I _c =2A
V _{CE(sat)}			1.5	V	I _c =2A, I _b =10mA

Equivalent circuit diagram

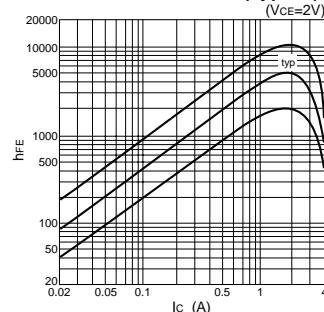


Characteristic curves

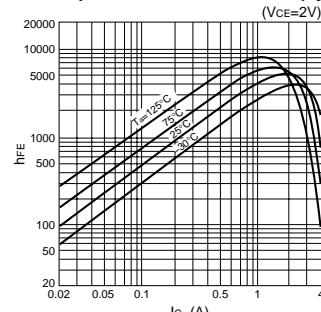
I_c-V_{CE} Characteristics (Typical)



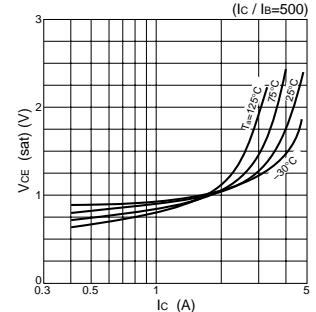
h_{FE}-I_c Characteristics (Typical)



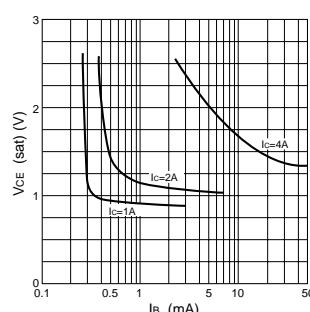
h_{FE}-I_c Temperature Characteristics (Typical)



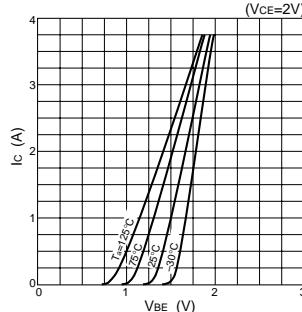
V_{CE(sat)}-I_c Temperature Characteristics (Typical)



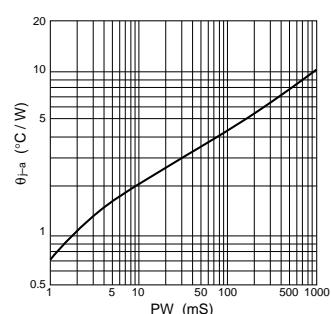
V_{CE(sat)}-I_b Characteristics (Typical)



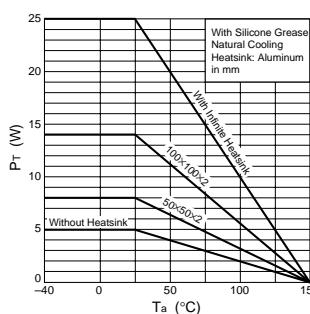
I_c-V_{BE} Temperature Characteristics (Typical)



θ_{j-a}-PW Characteristics



P_T-Ta Characteristics



Safe Operating Area (SOA)

