

Absolute maximum ratings

($T_a=25^{\circ}\text{C}$)

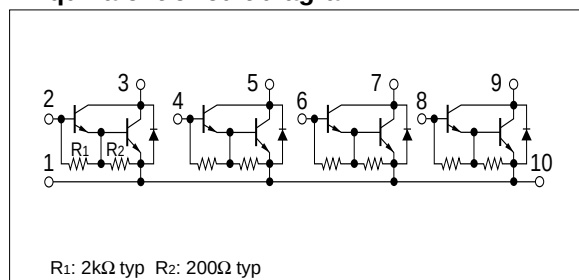
Symbol	Ratings	Unit
V _{CBO}	200	V
V _{CEO}	200	V
V _{EBO}	6	V
I _C	3	A
I _{CP}	6 (PW≤10ms, D _u ≤50%)	A
P _T	4 (T _a =25°C)	W
	20 (T _c =25°C)	
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

($T_a=25^{\circ}\text{C}$)

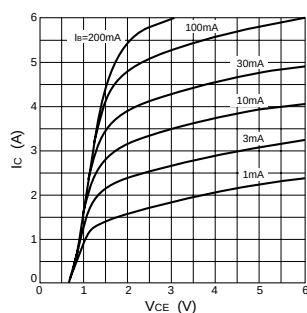
Symbol	Specification			Unit	Conditions
	min	typ	max		
ICBO			100	μA	$V_{CB}=200V$
IEBO			10	mA	$V_{EB}=6V$
V_{CEO}	200			V	$I_C=10mA$
h_{FE}	1000				$V_{CE}=4V, I_C=1A$
$V_{CE(sat)}$			2.0	V	$I_C=1A, I_B=1.5mA$

■Equivalent circuit diagram

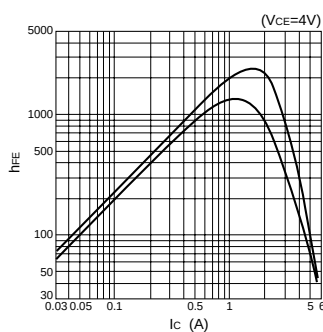


Characteristic curves

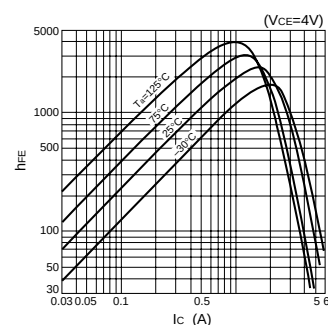
IC-V_{CE} Characteristics (Typical)



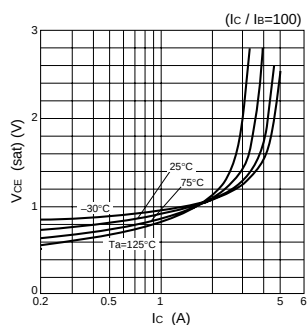
hFE-1C Characteristics (Typical)



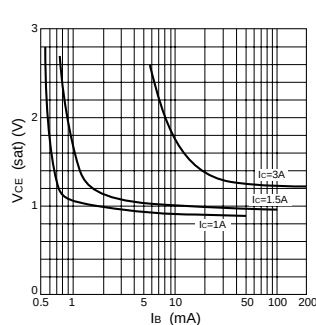
h_{FE}-Ic Temperature Characteristics (Typical)



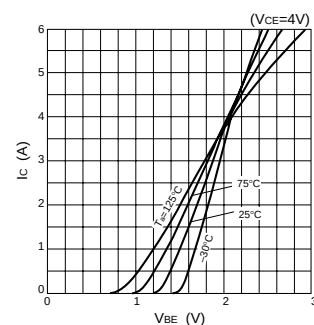
V_{CE(sat)}-I_C Temperature Characteristics (Typical)



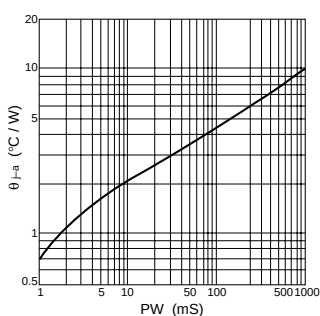
V_{CE(sat)}-I_B Characteristics (Typical)



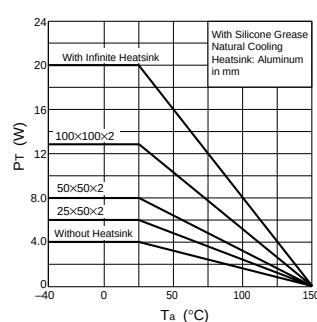
IC-V_{BE} Temperature Characteristics (Typical)



θ_{j-a} -PW Characteristics



P_T-T_a Characteristics



Safe Operating Area (SOA)

