

Absolute maximum ratings

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

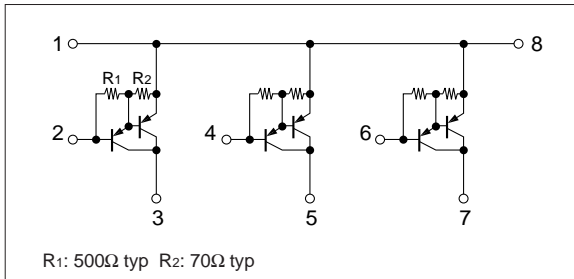
Symbol	Ratings	Unit
V_{CBO}	-550	V
V_{CEO}	-550	V
V_{EBO}	-6	V
I_c	-1	A
I_{cP}	-2 (PW \leq 1ms, $D_u\leq$ 25%)	A
I_B	-0.5	A
P_T	3 ($T_a=25^\circ\text{C}$)	W
	15 ($T_c=25^\circ\text{C}$)	
T_j	150	$^\circ\text{C}$
T_{stg}	-40 to +150	$^\circ\text{C}$

Electrical characteristics

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

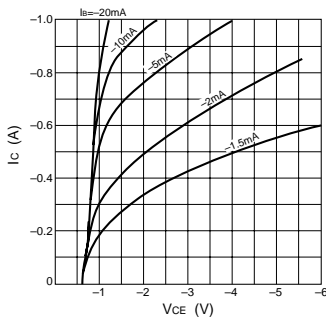
Symbol	Specification			Unit	Conditions
	min	typ	max		
I_{CBO}			-100	μA	$V_{CB}=-550\text{V}$
I_{EBO}		-10	-20	mA	$V_{EB}=-6\text{V}$
V_{CEO}	-550			V	$I_c=-100\mu\text{A}$
h_{FE}	200	400	1000		$V_{CE}=-4\text{V}$, $I_c=-500\text{mA}$
$V_{CE(sat)}$		-1.0	-1.5	V	$I_c=-500\text{mA}$, $I_B=-10\text{mA}$
$V_{BE(sat)}$		-1.6	-2.2	V	
t_{on}		0.7		μs	$V_{CC}=-200\text{V}$,
t_{stg}		13.0		μs	$I_c=-500\text{mA}$,
t_f		2.5		μs	$I_{B1}=-I_{B2}=-10\text{mA}$
f_T		15		MHz	$V_{CE}=-12\text{V}$, $I_E=0.2\text{A}$
C_{ob}		48		pF	$V_{CB}=-10\text{V}$, $f=1\text{MHz}$

Equivalent circuit diagram

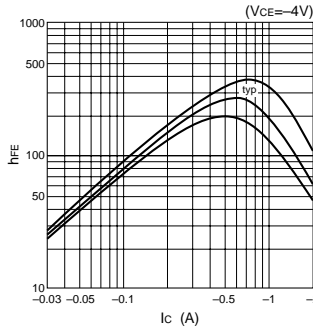


Characteristic curves

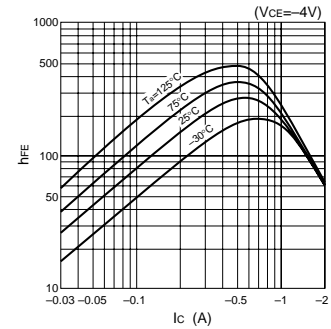
I_c - V_{CE} Characteristics (Typical)



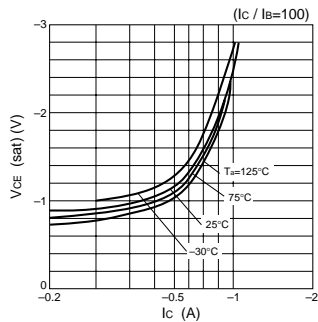
h_{FE} - I_c Characteristics (Typical)



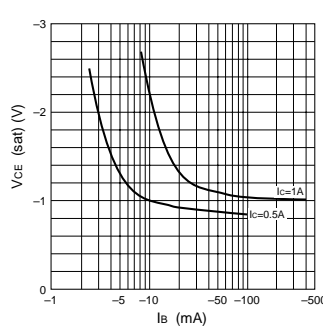
h_{FE} - I_c Temperature Characteristics (Typical)



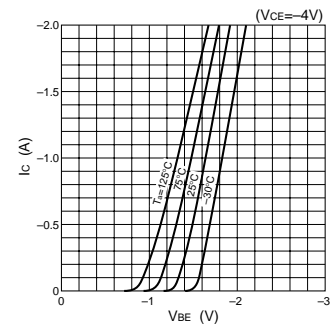
$V_{CE(sat)}$ - I_c Temperature Characteristics (Typical)



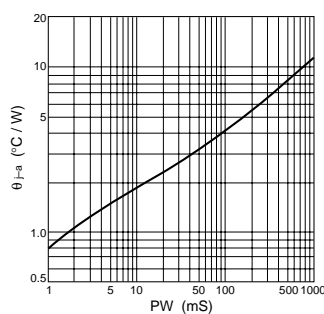
$V_{CE(sat)}$ - I_B Characteristics (Typical)



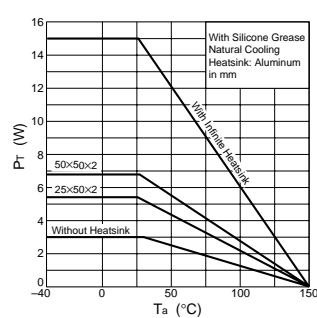
I_c - V_{BE} Temperature Characteristics (Typical)



θ_{j-a} -PW Characteristics



P_T - T_a Characteristics



Safe Operating Area (SOA)

