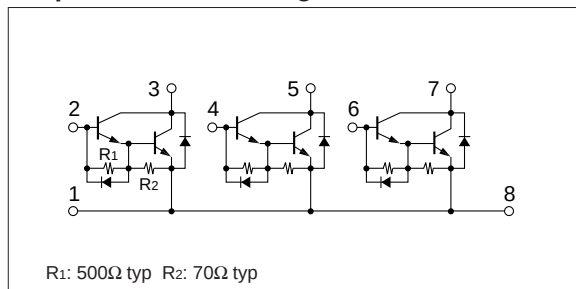


Absolute maximum ratings

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

Symbol	Ratings	Unit
V_{CB0}	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 ($T_a=25^\circ\text{C}$) 15 ($T_c=25^\circ\text{C}$)	W
T_J	150	$^\circ\text{C}$
T_{stg}	-40 to +150	$^\circ\text{C}$

Equivalent circuit diagram



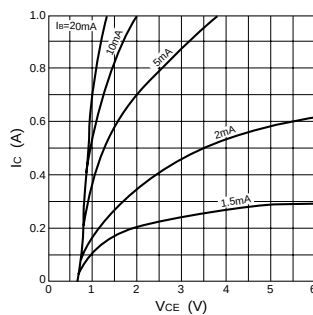
Electrical characteristics

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

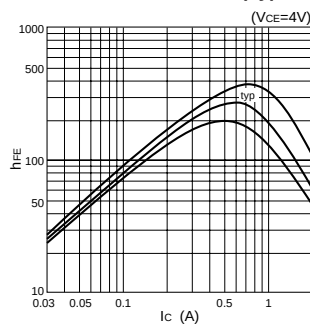
Symbol	Specification			Unit	Conditions
	min	typ	max		
I_{CBO}			100	μA	$V_{CB}=550\text{V}$
I_{EBO}		75	150	mA	$V_{EB}=6\text{V}$
V_{CEO}	550			V	$I_C=100\mu\text{A}$
h_{FE}	200	400	1000		$V_{CE}=4\text{V}$, $I_C=500\text{mA}$
$V_{CE(sat)}$		1.0	1.5	V	$I_C=500\text{mA}$, $I_B=10\text{mA}$
$V_{BE(sat)}$		1.5	2.2	V	
V_{FEC}		1.1	1.5	V	$I_{FEC}=1\text{A}$
t_{on}		0.5		μs	$V_{CC}\div 200\text{V}$, $I_C=500\text{mA}$, $I_{B1}=-I_{B2}=10\text{mA}$
t_{stg}		3.5		μs	
t_f		0.7		μs	
f_T		15		MHz	$V_{CE}=12\text{V}$, $I_E=-0.2\text{A}$
C_{ob}		35		pF	$V_{CB}=10\text{V}$, $f=1\text{MHz}$

Characteristic curves

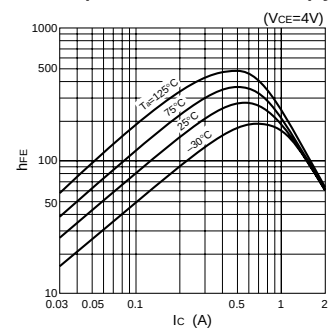
I_C - V_{CE} Characteristics (Typical)



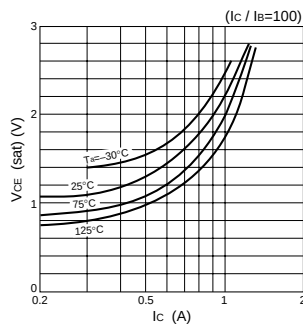
h_{FE} - I_C Characteristics (Typical)



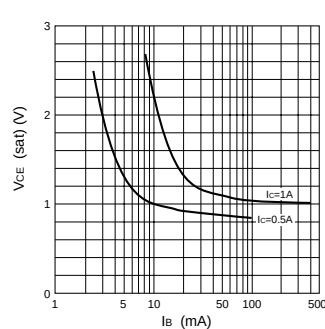
h_{FE} - I_C Temperature Characteristics (Typical)



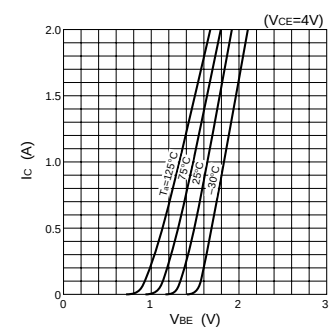
$V_{CE(sat)}$ - I_C Temperature Characteristics (Typical)



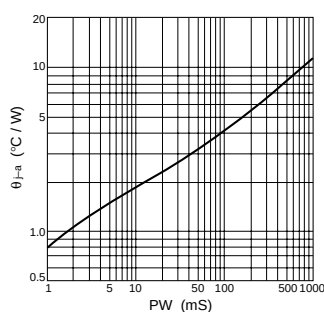
$V_{CE(sat)}$ - I_B Characteristics (Typical)



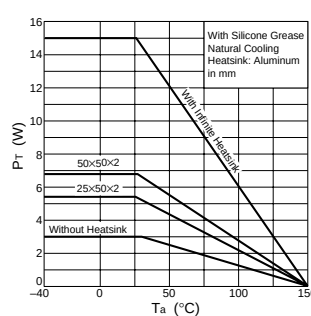
I_C - V_{BE} Temperature Characteristics (Typical)



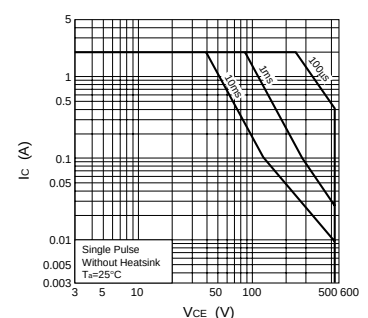
θ_{JA} -PW Characteristics



P_T - T_a Characteristics



Safe Operating Area (SOA)



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