

Absolute maximum ratings

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

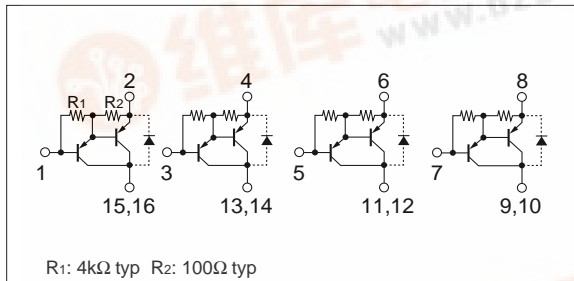
Symbol	Ratings	Unit
V_{CB0}	-60	V
V_{CEO}	-60	V
V_{EBO}	-6	V
I_c	-1.5	A
I_{CP}	-2.5 (PW \leq 1ms, Du \leq 10%)	A
I_B	-0.1	A
P_T	3 ($T_a=25^\circ\text{C}$)	W
T_j	150	$^\circ\text{C}$
T_{stg}	-40 to +150	$^\circ\text{C}$
θ_{j-a}	41.6	$^\circ\text{C}/\text{W}$

Electrical characteristics

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

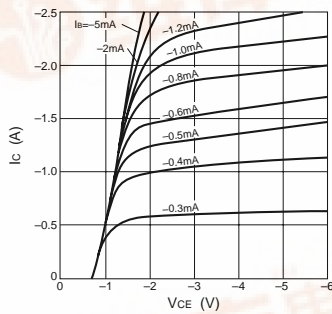
Symbol	Specification			Unit	Conditions
	min	typ	max		
I_{CB0}			-10	μA	$V_{CB}=-60\text{V}$
I_{EBO}			-3	mA	$V_{EB}=-6\text{V}$
V_{CEO}	-60			V	$I_c=-10\text{mA}$
h_{FE}	2000		12000		$V_{CE}=-4\text{V}$, $I_c=-1\text{A}$
$V_{CE(sat)}$			-1.4	V	$I_c=-1\text{A}$, $I_B=-2\text{mA}$
$V_{BE(sat)}$			-2.2	V	

Equivalent circuit diagram

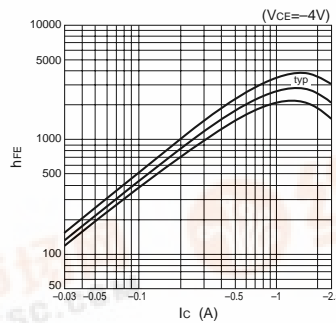


Characteristic curves

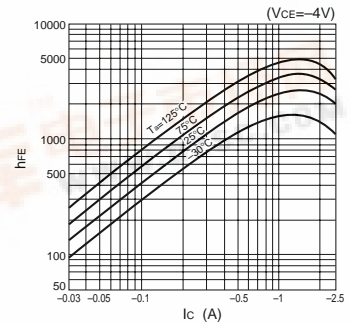
I_c - V_{CE} Characteristics (Typical)



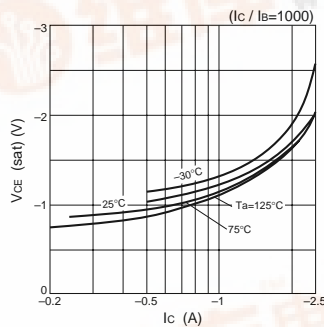
h_{FE} - I_c Characteristics (Typical)



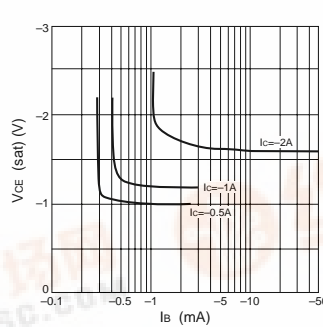
h_{FE} - I_c Temperature Characteristics (Typical)



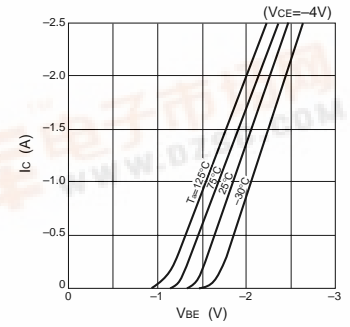
$V_{CE(sat)}$ - I_c Temperature Characteristics (Typical)



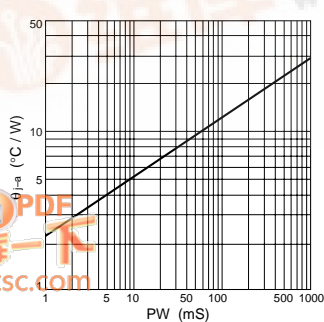
$V_{CE(sat)}$ - I_B Characteristics (Typical)



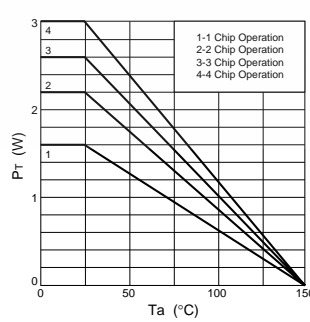
I_c - V_{BE} Temperature Characteristics (Typical)



θ_{j-a} -PW Characteristics



P_T - T_a Characteristics



Safe Operating Area (SOA)

