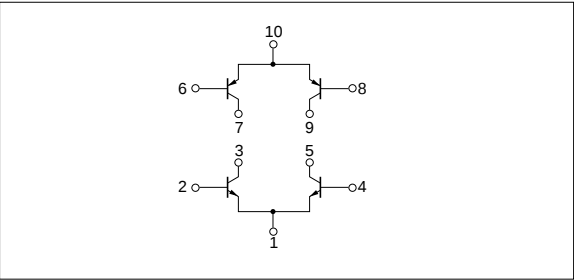


Absolute maximum ratings

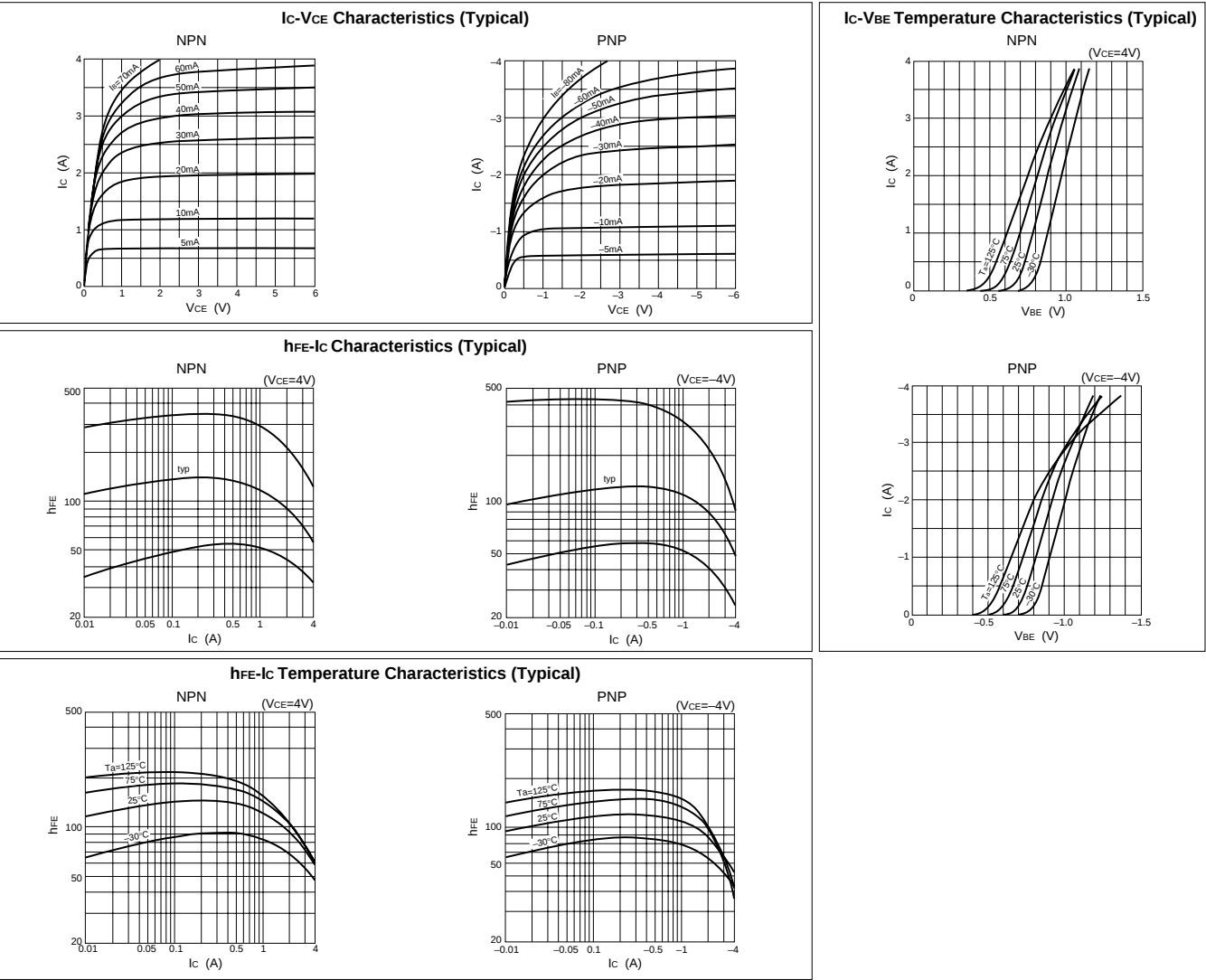
(Ta=25°C)

Symbol	Ratings		Unit
	NPN	PNP	
V _{CBO}	60	−60	V
V _{CEO}	60	−60	V
V _{EBO}	6	−6	V
I _C	3	−3	A
I _{CP}	6 (PW≤10ms, Du≤50%)	−6 (PW≤10ms, Du≤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

Equivalent circuit diagram



Characteristic curves



Electrical characteristics

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

Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
I_{CBO}			100	μA	$V_{CB}=60\text{V}$			-100	μA	$V_{CB}=-60\text{V}$
I_{EBO}			100	μA	$V_{EB}=6\text{V}$			-100	μA	$V_{EB}=-6\text{V}$
V_{CEO}	60			V	$I_C=25\text{mA}$	-60			V	$I_C=-25\text{mA}$
h_{FE}	40				$V_{CE}=4\text{V}$, $I_C=1\text{A}$	40				$V_{CE}=-4\text{V}$, $I_C=-1\text{A}$
$V_{CE(sat)}$			1.0	V	$I_C=2\text{A}$, $I_B=0.2\text{A}$			-1.0	V	$I_C=-2\text{A}$, $I_B=-0.2\text{A}$
t_{on}		0.2		μs	$V_{CC}\div 12\text{V}$, $I_C=2\text{A}$, $I_{B1}=-I_{B2}=0.2\text{A}$		0.25		μs	$V_{CC}\div 12\text{V}$, $I_C=-2\text{A}$, $I_{B1}=-I_{B2}=-0.2\text{A}$
t_{stg}		1.0		μs			0.75		μs	
t_f		0.3		μs			0.25		μs	

Characteristic curves

