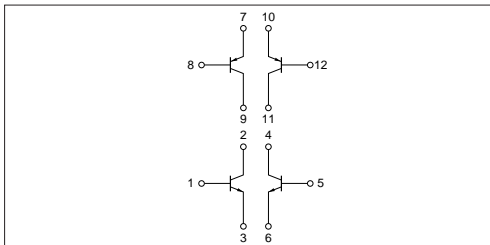


Absolute maximum ratings

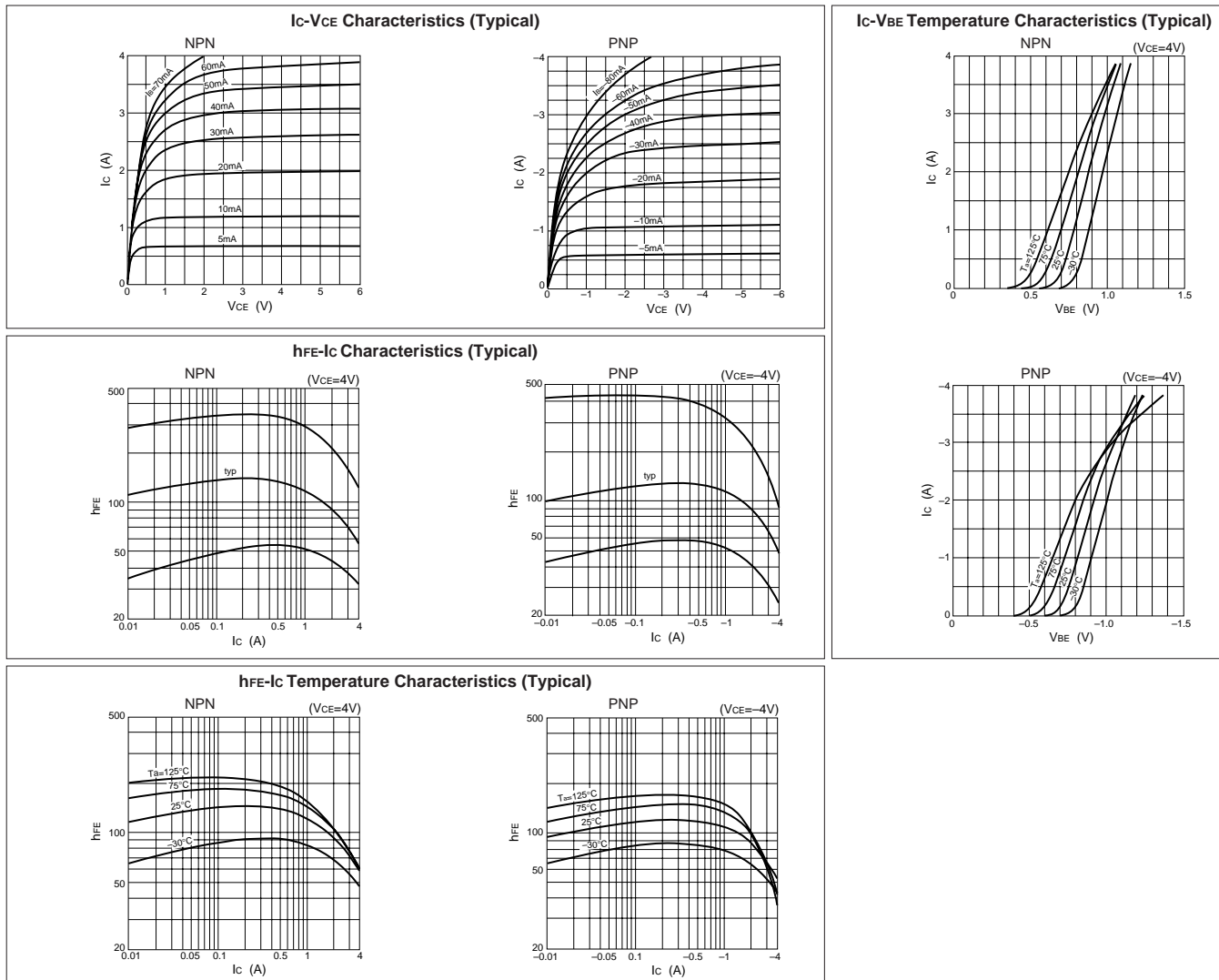
($T_a=25^\circ\text{C}$)

Symbol	Ratings		Unit
	NPN	PNP	
V_{CBO}	60	-60	V
V_{CEO}	60	-60	V
V_{EBO}	6	-6	V
I_C	4	-4	A
I_{CP}	6 ($PW \leq 1\text{ms}$, $D_u \leq 50\%$)	-6 ($PW \leq 1\text{ms}$, $D_u \leq 50\%$)	A
I_B	1	-1	A
P_T	5 ($T_a=25^\circ\text{C}$)		W
	25 ($T_c=25^\circ\text{C}$)		
V_{ISO}	1000 (Between fin and lead pin, AC)		V_{rms}
T_j	150		$^\circ\text{C}$
T_{stg}	-40 to +150		$^\circ\text{C}$
θ_{j-c}	5		$^\circ\text{C/W}$

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}			10	μA	$V_{CB}=60\text{V}$			-10	μA	$V_{CB}=-60\text{V}$
I_{EBO}			10	μA	$V_{EB}=6\text{V}$			-10	μA	$V_{EB}=-6\text{V}$
V_{CEO}	60			V	$I_C=25\text{mA}$	-60			V	$I_C=-25\text{mA}$
hFE	80				$V_{CE}=4\text{V}, I_C=1\text{A}$	80				$V_{CE}=-4\text{V}, I_C=-1\text{A}$
$V_{CE}(\text{sat})$			0.6	V	$I_C=2\text{A}, I_B=0.2\text{A}$			-0.6	V	$I_C=-2\text{A}, I_B=-0.2\text{A}$

Characteristic curves

