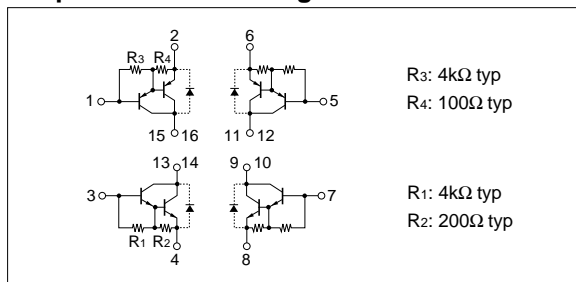


Absolute maximum ratings

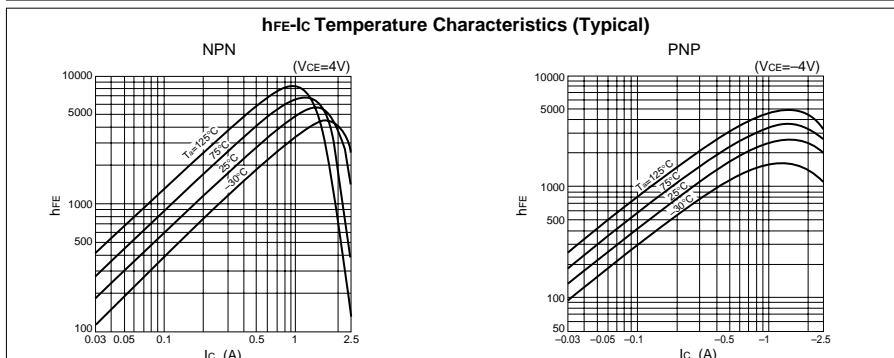
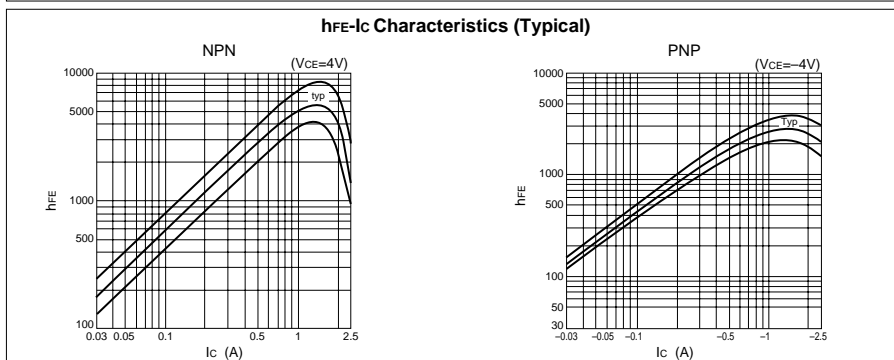
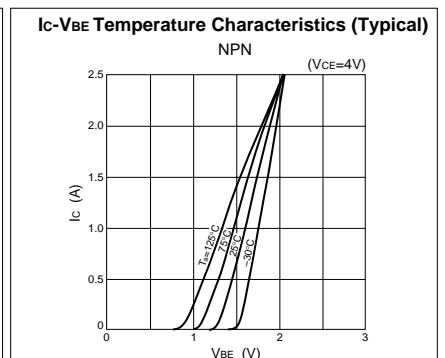
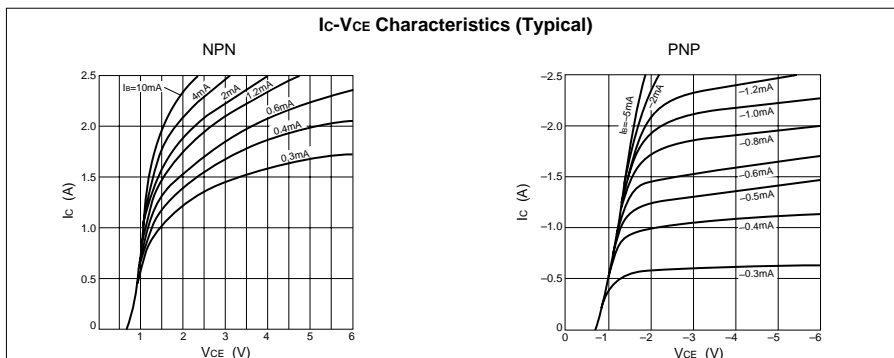
(Ta=25°C)

Symbol	Ratings		Unit	
	NPN	PNP		
V _{CB0}	100	-60	V	
V _{CE0}	100	-60	V	
V _{EBO}	6	-6	V	
I _c	1.5	-1.5	A	
I _{cP}	2.5 (PW≤1ms, Du≤100%)		-2.5 (PW≤1ms, Du≤10%)	A
I _B	0.1	-0.1	A	
P _T	3 (Ta=25°C)		W	
T _j	150		°C	
T _{stg}	-40 to +150		°C	
θ _{j-a}	41.6		°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	$V_{CB}=100\text{V}$			-10	μA	$V_{CB}=-60\text{V}$
I_{EBO}			3	mA	$V_{EB}=6\text{V}$			-3	mA	$V_{EB}=-6\text{V}$
V_{CEO}	100			V	$I_C=10\text{mA}$	-60			V	$I_C=-10\text{mA}$
h_{FE}	2000		12000		$V_{CE}=4\text{V}, I_C=1\text{A}$	2000		12000		$V_{CE}=-4\text{V}, I_C=-1\text{A}$
$V_{CE(sat)}$			1.3	V	$I_C=1\text{A}, I_B=2\text{mA}$			-1.4	V	$I_C=-1\text{A}, I_B=-2\text{mA}$
$V_{BE(sat)}$			2.2	V				-2.2	V	

Characteristic curves

