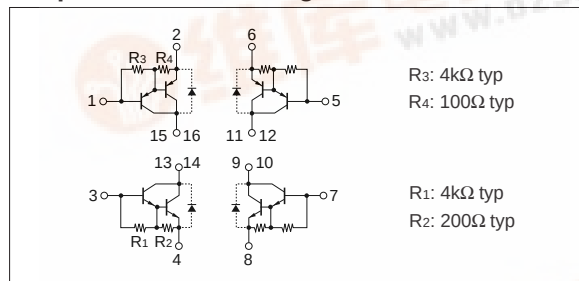


Absolute maximum ratings

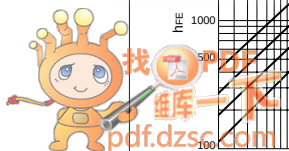
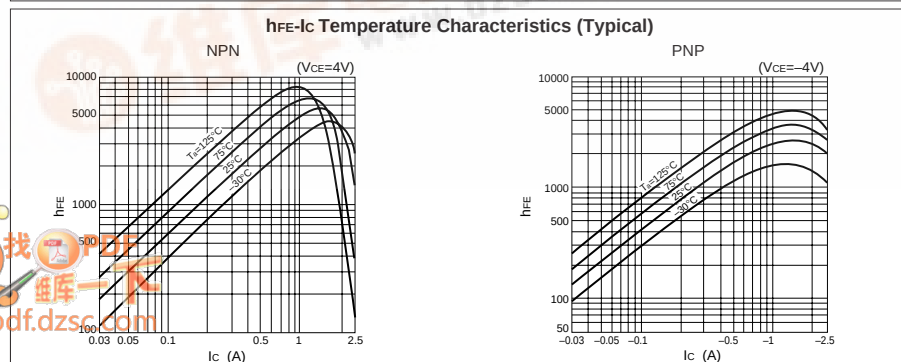
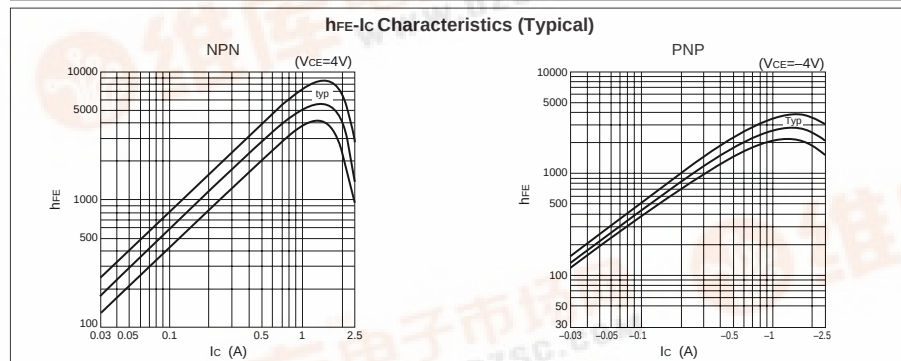
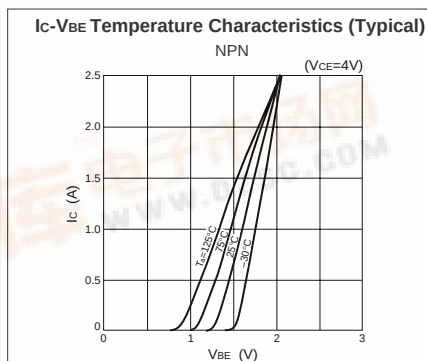
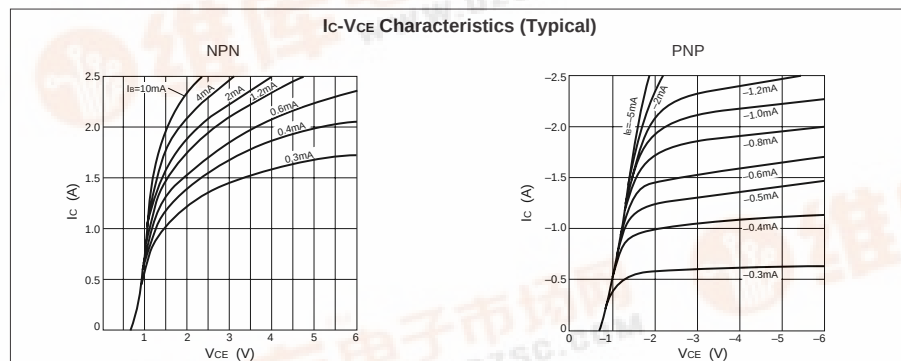
(Ta=25°C)

Symbol	Specification		Unit
	NPN	PNP	
V _{CBO}	100	-60	V
V _{CEO}	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

(Ta=25°C)

Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
ICBO			10	μA	$V_{CB}=100\text{V}$			-10	μA	$V_{CB}=-60\text{V}$
IEBO			3	mA	$V_{EB}=6\text{V}$			-3	mA	$V_{EB}=-6\text{V}$
VCEO	100			V	$I_C=10\text{mA}$	-60			V	$I_C=-10\text{mA}$
hFE	2000		12000		$V_{CE}=4\text{V}, I_C=1\text{A}$	2000		12000		$V_{CE}=-4\text{V}, I_C=-1\text{A}$
VCE(sat)			1.3	V	$I_C=1\text{A}, I_B=2\text{mA}$			-1.4	V	$I_C=-1\text{A}, I_B=-2\text{mA}$
VBE(sat)			2.2	V				-2.2	V	

Characteristic curves

