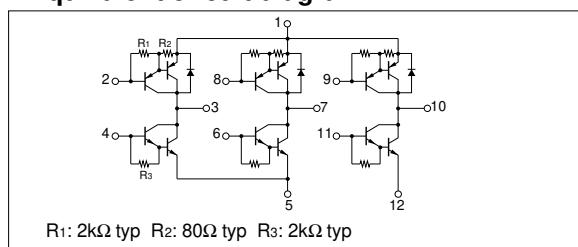


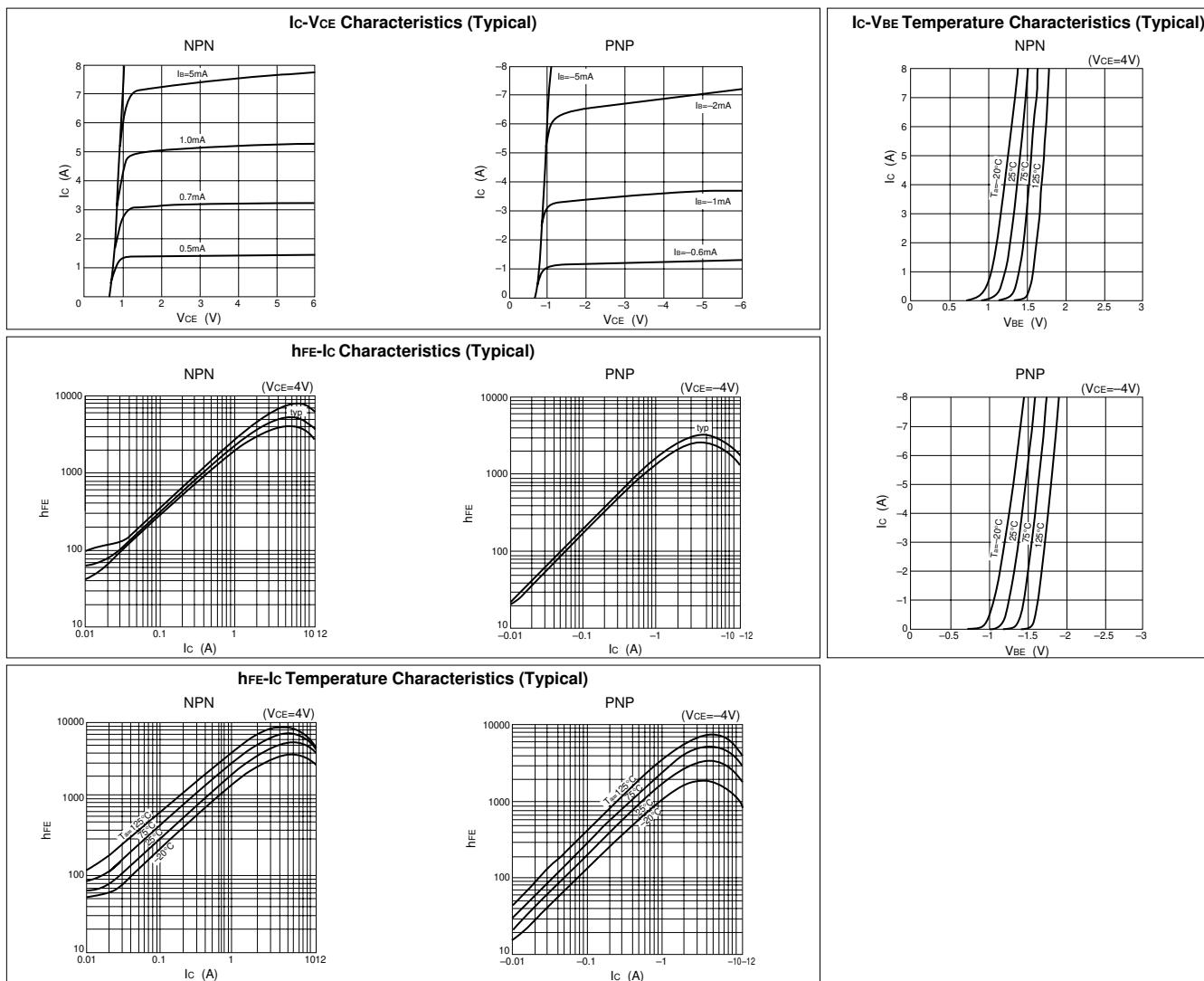
Absolute maximum ratings

Symbol	Ratings		Unit
	NPN	PNP	
V _{CBO}	60	-60	V
V _{CEO}	60	-60	V
V _{EBO}	6	-6	V
I _C	8	-8	A
I _{CP}	12 (PW≤1ms, Du≤50%)	-12 (PW≤1ms, Du≤50%)	A
I _{FEC}	—	-8	A
I _{FECP}	—	-12	A
I _B	0.5	-0.5	A
P _T	5 (T _a =25°C)		W
	25 (T _c =25°C)		
V _{ISO}	1000 (Between fin and lead pin, AC)		V _{rms}
T _j	150		°C
T _{stg}	-40 to +150		°C
θ _{j-c}	5		°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				
I _{CO}			10	μA	V _{CB} =60V			-10	μA	V _{CB} =-60V		
I _{EBO}			10	μA	V _{EB} =6V			-10	mA	V _{EB} =-6V		
V _{CEO}	60			V	I _C =10mA	-60			V	I _C =-10mA		
h _{FE}	2000	5000	12000		V _{CE} =4V, I _C =5A	2000	5000	12000		V _{CE} =-4V, I _C =-5A		
V _{CE(sat)}			1.5	V	I _C =5A, I _B =10mA			-1.5	V	I _C =-5A, I _B =-10mA		
V _{BE(sat)}			2.0	V				-2.0	V			
V _{FEC}		—		V				2.0	V	I _{FEC} =5A		
t _{tr}		—		μs				1.0	μs	I _{FEC} =±0.5A		
t _{on}		0.5		μs	V _{CC} =25V, I _C =5A, I _{B1} =-I _{B2} =10mA			0.5	μs	V _{CC} =-25V, I _C =-5A, I _{B1} =-I _{B2} =-10mA		
t _{stg}		2.0		μs				1.4	μs			
t _f		1.2		μs				0.6	μs			
f _T		50		MHz	V _{CE} =12V, I _E =-1A			100	MHz	V _{CE} =-12V, I _E =1A		
C _{ob}		100		pF	V _{CB} =10V, f=1MHz			130	pF	V _{CB} =-10V, f=1MHz		

