

Absolute maximum ratings

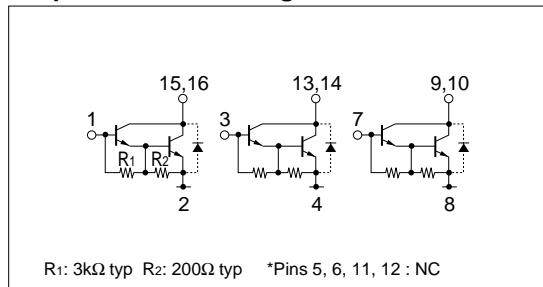
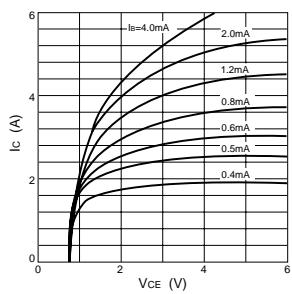
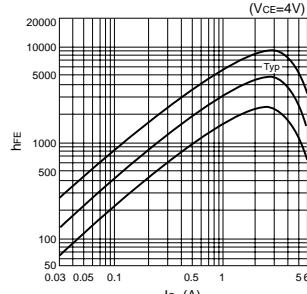
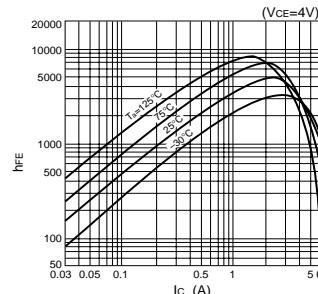
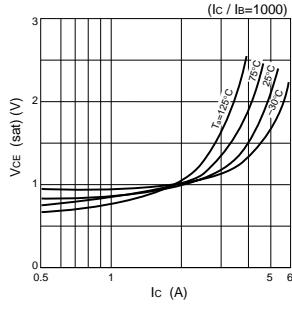
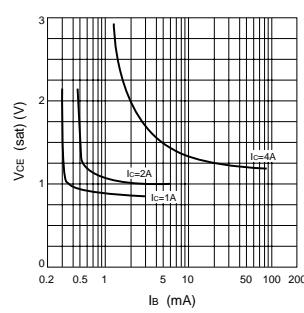
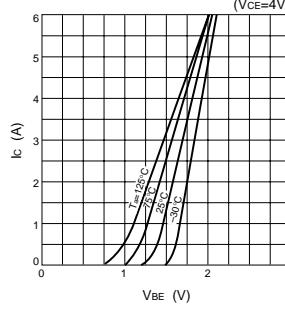
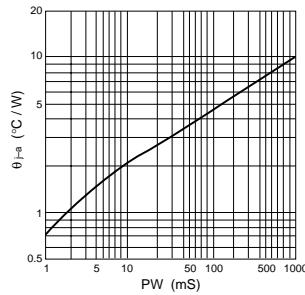
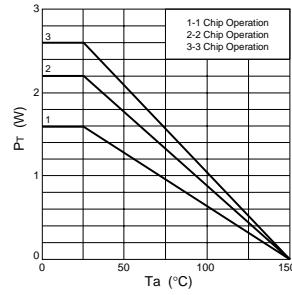
(Ta=25°C)

Symbol	Ratings	Unit
V _{CBO}	60	V
V _{CEO}	60	V
V _{EBO}	6	V
I _c	4	A
I _{CP}	6 (PW≤1ms, Du≤50%)	A
I _B	0.5	A
P _T	2.6 (Ta=25°C)	W
T _j	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

(Ta=25°C)

Symbol	Specification		Unit	Conditions
	min	typ		
I _{CBO}			10	μA V _{CB} =60V
I _{EBO}			10	mA V _{EB} =6V
V _{CEO}	60		V	I _c =10mA
h _{FE}	2000		12000	V _{CE} =4V, I _c =3A
V _{CE(sat)}			1.5	V I _c =3A, I _B =6mA
V _{BE(sat)}			2.0	V
V _{FEC}			1.8	V I _{FE} =1A
t _{on}		1.0	μs	V _{CC} =30V,
t _{stg}		4.0	μs	I _c =3A,
t _f		1.5	μs	I _{B1} =I _{B2} =10mA
f _r		75	MHz	V _{CE} =12V, I _c =-0.1A
C _{ob}		50	pF	V _{CB} =10V, f=1MHz

■ Equivalent circuit diagram**Characteristic curves****I_c-V_{CE} Characteristics (Typical)****h_{FE}-I_c Characteristics (Typical)****h_{FE}-I_c Temperature Characteristics (Typical)****V_{CE(sat)}-I_c Temperature Characteristics (Typical)****V_{CE(sat)}-I_b Characteristics (Typical)****I_c-V_{BE} Temperature Characteristics (Typical)****θ_{J-a}-PW Characteristics****P_T-T_a Characteristics****Safe Operating Area (SOA)**