

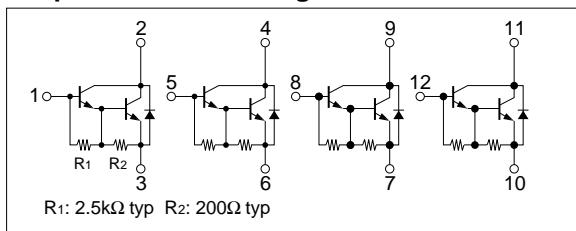
## Absolute maximum ratings

Symbol	Ratings	Unit
V <sub>CBO</sub>	120	V
V <sub>CEO</sub>	120	V
V <sub>EBO</sub>	6	V
I <sub>c</sub>	5	A
I <sub>CP</sub>	8 (PW≤1ms, Du≤50%)	A
I <sub>B</sub>	0.5	A
P <sub>T</sub>	5 (Ta=25°C) 25 (Tc=25°C)	W
V <sub>Iso</sub>	1000 (Between fin and lead pin, AC)	V <sub>rms</sub>
T <sub>j</sub>	150	°C
T <sub>tsg</sub>	-40 to +150	°C
θ <sub>j-c</sub>	5	°C/W

## Electrical characteristics

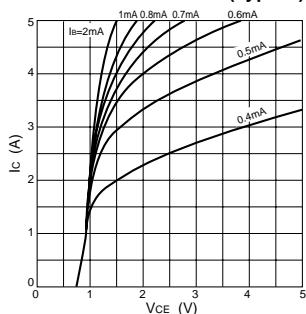
Symbol	Specification			Unit	Conditions
	min	typ	max		
I <sub>CBO</sub>			10	μA	V <sub>CB</sub> =120V
I <sub>EBO</sub>			10	mA	V <sub>EB</sub> =6V
V <sub>CEO</sub>	120			V	I <sub>c</sub> =25mA
h <sub>FE</sub>	2000	5000	15000		V <sub>CE</sub> =2V, I <sub>c</sub> =3A
V <sub>CE(sat)</sub>		1.0	1.5	V	I <sub>c</sub> =3A, I <sub>b</sub> =3mA
V <sub>BE(sat)</sub>		1.6	2.0	V	
t <sub>on</sub>		0.5		μs	V <sub>CC</sub> =30V,
t <sub>stg</sub>		5.5		μs	I <sub>c</sub> =3A,
t <sub>f</sub>		1.5		μs	I <sub>b1</sub> =-I <sub>b2</sub> =3mA

## ■ Equivalent circuit diagram

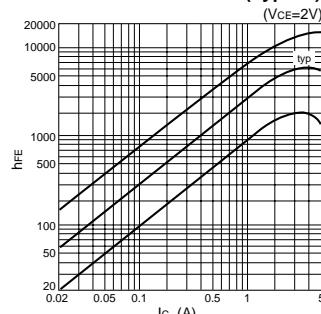


## Characteristic curves

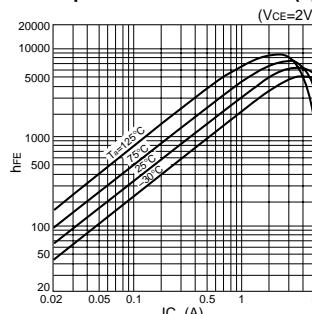
I<sub>c</sub>-V<sub>CE</sub> Characteristics (Typical)



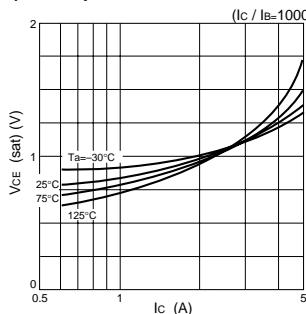
h<sub>FE</sub>-I<sub>c</sub> Characteristics (Typical)



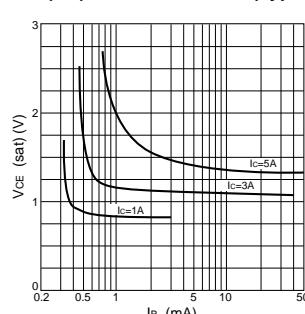
h<sub>FE</sub>-I<sub>c</sub> Temperature Characteristics (Typical)



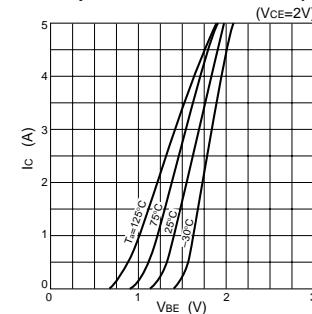
V<sub>CE(sat)</sub>-I<sub>c</sub> Temperature Characteristics (Typical)



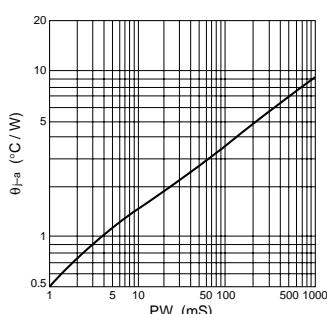
V<sub>CE(sat)</sub>-I<sub>b</sub> Characteristics (Typical)



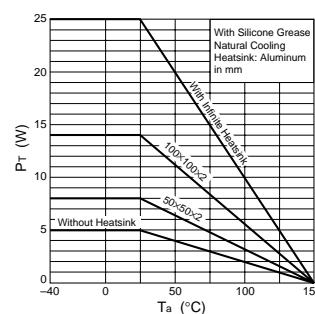
I<sub>c</sub>-V<sub>BE</sub> Temperature Characteristics (Typical)



θ<sub>j-a</sub>-PW Characteristics



P<sub>T</sub>-Ta Characteristics



Safe Operating Area (SOA)

