(Ta=25°C)

STA471A

With built-in avalanche diode

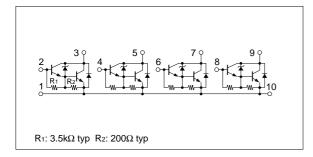
Absolute maximum ratings

		()	
Symbol	Ratings	Unit	
Vсво	60±10	V	
VCEO	60±10	V	
Vево	6	V	
Ic	2	А	
Іср	4 (PW≤1ms, Du≤25%)	А	
Ів	0.5	А	
Рт	4 (Ta=25°C)	W	
	20 (Tc=25°C)		
Tj	150	°C	
Tstg	-40 to +150	°C	

Electrical characteristics

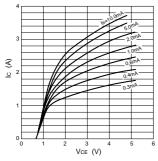
(Ta=25°C)

Cumbal	Specification		Unit	Conditions		
Symbol	min	typ	max	Unit	Conditions	
Ісво			10	μΑ	Vcb=50V	
ІЕВО			5	mA	VEB=6V	
VCEO	50	60	70	V	Ic=10mA	
hfe	2000	5000	10000		Vce=4V, Ic=1A	
Vce(sat)		1.1	1.5	V	Ic=1A, Iв=2mA	
VBE(sat)		1.8	2.2	V		
VFEC		1.3	1.8	V	IFEC=1A	
ton		0.5		μs	Vcc≒30V,	
tstg		4.0		μs	Ic=1A,	
tf		1.0		μs	Iв1=-Iв2=2mA	
f⊤		50		MHz	Vce=12V, Ie=-0.1A	
Cob		25		pF	Vcb=10V, f=1MHz	

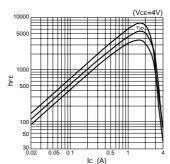


Characteristic curves

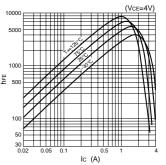
Ic-VcE Characteristics (Typical)



hfe-Ic Characteristics (Typical)

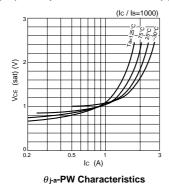


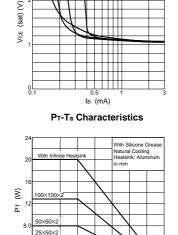
hfe-lc Temperature Characteristics (Typical)



VcE(sat)-Ic Temperature Characteristics (Typical)

ypical) VcE(sat)-IB Temperature Characteristics (Typical)





Ic-VBE Temperature Characteristics (Typical)

