Darlington

2SB1382



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD2082)

Application: Chopper Regulator, DC Motor Driver and General Purpose

Absolute maximum ratings (Ta=2					
Symbol	2SB1382	Unit			
Vсво	-120	V			
VCEO	-120	V			
VEBO	-6	V			
Ic	-16(Pulse-26)	А			
Ів	-1	А			
Pc	75(Tc=25°C)	W			
Tj	150	°C			
Tstg	-55 to +150	°C			

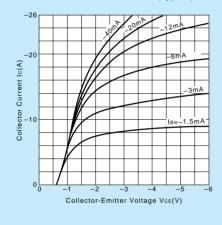
Electrica	l Characteristics	(Ta=25°C)		
Symbol	Conditions	2SB1382	Unit	
Ісво	VcB=-120V	-10max	μΑ	
ІЕВО	VEB=-6V	-10max	mA	
V(BR)CEO	Ic=-10mA	-120min	V	
hfe	Vce=-4V, Ic=-8A	2000min		
Vce(sat)	Ic=-8A, IB=-16mA	-1.5max	V	
VBE(sat)	Ic=-8A, IB=-16mA	-2.5max	V	
fт	Vce=-12V, IE=1A	50typ	MHz	
Сов	VcB=-10V, f=1MHz	350typ	pF	

External Dimensions FM100(TO3PF) Weight: Approx 6.5g a. Type No. b. Lot No.

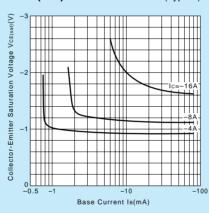
Typical Switching Characteristics (Common Emitter)

Vcc	RL	Ic	V _{BB1} (V)	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(µs)	(µs)	(µs)
-40	5	-8	-10	5	-16	16	0.8typ	1.8typ	1.0typ

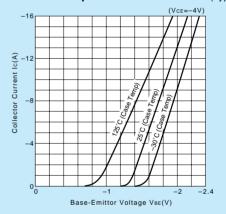




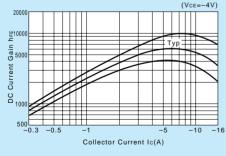
VcE(sat)-IB Characteristics (Typical)



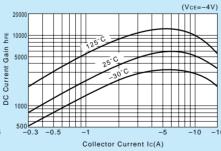
Ic-VBE Temperature Characteristics (Typical)



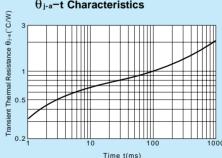




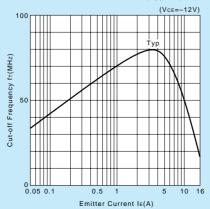
hfe-Ic Temperature Characteristics (Typical)



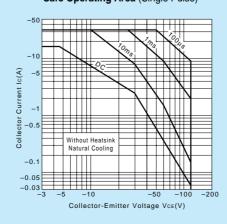
θ_{i-a}-t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

