Darlington

2SB1351



Silicon PNP Epitaxial Planar Transistor

Application: Driver for Printer Head, Solenoid, Relay, Motor and General Purpose

Absolute	(Ta=25°C)	
Symbol	2SB1351	Unit
Vсво	-60	V
VCEO	-60	V
VEBO	-6	V
Ic	-12(Pulse-20)	А
Ів	-1	А
Pc	30(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

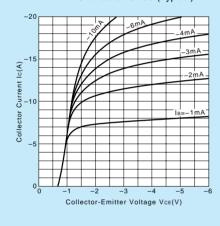
Electrical	Characteristics	(Ta=25°C)		
Symbol	Condition	2SB1351	Unit	
Ісво	Vcb=-60V	-10max	μΑ	
ГЕВО	VEB=-6V	-10max	mA	
V(BR)CEO	Ic=-10mA	-60min	V	
hfe	Vce=-4V, Ic=-10A	2000min		
Vce(sat)	Ic=-10A, IB=-20mA	-1.5max	V	
VBE(sat)	Ic=-10A, IB=-20mA	-2.0max	V	
fT	Vce=-12V, Ie=1A	130typ	MHz	
Сов	VcB=-10V, f=1MHz	170typ	pF	

External Dimensions FM20(TO220F) Ф Weight: Approx 2.0g a. Type No. b. Lot No.

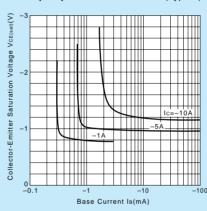
Typical Switching Characteristics (Common Emitter)

Vcc	R _L	Ic	V _{BB1} (V)	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(µs)	(µs)	(µs)
-40	4	-10	-10	5	-20	20	0.7typ	1.5typ	0.6typ

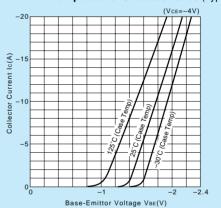




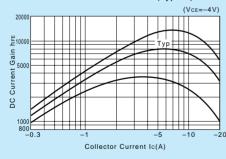
VcE(sat)-IB Characteristics (Typical)



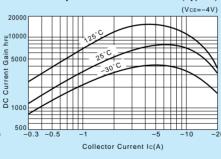
Ic-VBE Temperature Characteristics (Typical)

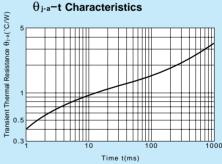


hfe-Ic Characteristics (Typical)

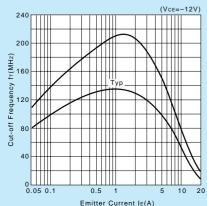


hfe-Ic Temperature Characteristics (Typical)

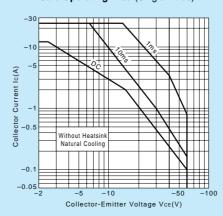




fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

