Darlington

2SB1258



Weight: Approx 2.0g a. Type No. b. Lot No.

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD1785)

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

Absolute maximum ratings (Ta=25°C)						
Symbol	2SB1258	Unit				
Vсво	-100	V				
VCEO	-100	V				
VEBO	-6	V				
Ic	-6(Pulse-10)	А				
Ів	-1	А				
Pc	30(Tc=25°C)	W				
Tj	150	°C				
Tstg	-55 to +150	°C				

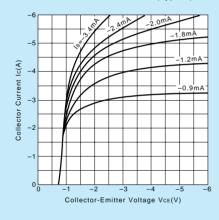
Electrical C	haracteristics	(Ta=25°C)		
Symbol	Conditions 2SB1258		Unit	
Ісво	Vcb=-100V	-10max	μΑ	
I EBO	VEB=-6V	-10max	μΑ	
V(BR)CEO	Ic=-10mA	-100min	V	
hfe	Vce=-2V, Ic=-3A	1000min		
Vce(sat)	Ic=-3A, IB=-6mA	-1.5max	V	
VBE(sat)	Ic=-3A, IB=-6mA	-2max	V	
fт	Vce=-12V, Ie=0.2A	100typ	MHz	
Сов	VcB=-10V, f=1MHz	100typ	pF	

External Dimensions FM20(TO220F)

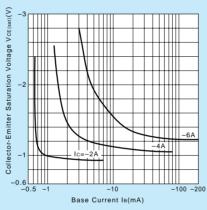
Typical Switching Characteristics (Common Emitter)

Vcc	RL	Ic	VBB1	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)	(V)	(V)	(mA)	(mA)	(µs)	(μs)	(μs)
-30	10	-3	-10	5	-6	6	0.6typ	1.6typ	0.5typ

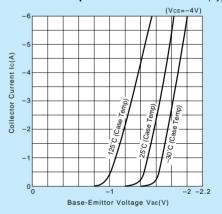
Ic-VcE Characteristics (Typical)



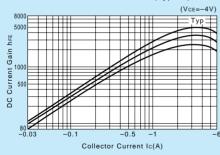
VcE(sat)-IB Characteristics (Typical)



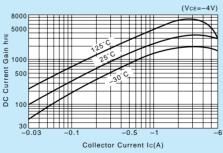
Ic-VBE Temperature Characteristics (Typical)

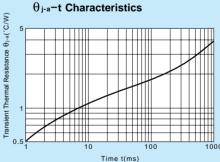


hfe-Ic Characteristics (Typical)

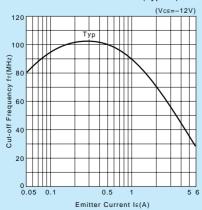


hfe-Ic Temperature Characteristics (Typical)

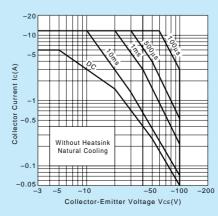




fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

