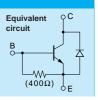
Built-in Diode at C-E 2SC4065 Low Vce (sat) Low Vce (sat)



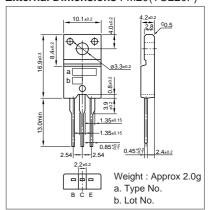
Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1568)

Application: DC Motor Driver and General Purpose

Absolute maximum ratings (Ta=25°C						
Symbol	2SC4065	Unit				
Vсво	60	V				
VCEO	60	V				
VEBO	6	V				
Ic	±12	А				
Ів	3	А				
Pc	35(Tc=25°C)	W				
Tj	150	°C				
Tstg	-55 to +150	°C				

Electrical Cr	naracteristics	(Ta=25°C)		
Symbol	Conditions	2SC4065	Unit	
Ісво	Vcb=60V	100max	μΑ	
Г ЕВО	VEB=6V	60max	mA	
V(BR)CEO	Ic=25mA	60min	V	
hfe	Vce=1V, Ic=6A	50min		
Vce(sat)	Ic=6A, IB=1.3A	0.35max	V	
VFEC	VECO=10A	2.5max	V	
fT	Vce=12V, IE=-0.5A	24typ	MHz	
Сов	VcB=10V, f=1MHz	180typ	PF	

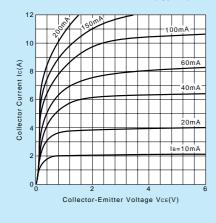
External Dimensions FM20(TO220F)



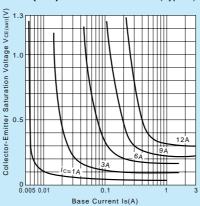
Typical Switching Characteristics (Common Emitter)

,,										
Ī	Vcc (V)	RL (Ω)	Ic (A)	VBB1 (V)	V _{BB2} (V)	I _{B1} (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)
	24	4	6	10	-5	0.12	-0.12	0.6typ	1.4typ	0.4typ

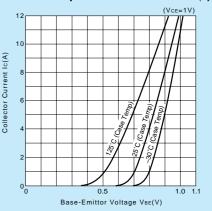
Ic-VcE Characteristics (Typical)



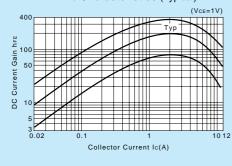
VcE(sat)-IB Characteristics (Typical)



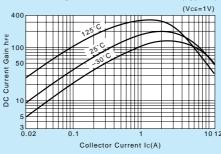
Ic-VBE Temperature Characteristics (Typical)



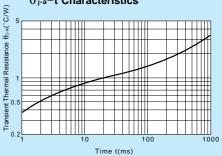
hfe-Ic Characteristics (Typical)



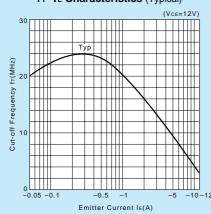
hfe-Ic Temperature Characteristics (Typical)



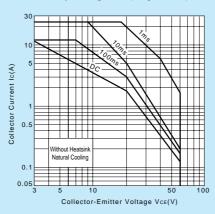
θ_{j-a}−t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

