2SC5271

Silicon NPN Triple Diffused Planar Transistor

Application: Resonant Switching Regulator and General Purpose

■Absolute	(Ta=25°C)	
Symbol	Ratings	Unit
Vсво	300	V
VCEO	200	V
VEBO	7	V
Ic	5(Pulse10)	А
lB	2	А
Pc	30(Tc=25°C)	W
Ti	150	°C

-55 to +150

Tstg

■Electrical Cl	haracteristics	(Ta=25°C)		
Symbol	Conditions	Ratings	Unit	
Ісво	Vcb=300V	100max	μΑ	
IEBO	VEB=7V	100max	μΑ	
V(BR)CEO	Ic=10mA	200min	V	
hFE1	Vce=2V, Ic=2.5A	10 to 30		
hFE2	Vce=2V, Ic=1mA	15min		
Vce(sat)	Ic=2.5A, IB=0.5A	1.0max	V	
VBE(sat)	Ic=2.5A, IB=0.5A	1.5max	V	
fr	Vce=12V, Ie=-0.5A	10typ	MHz	
Сов	Vcb=10V, f=1MHz	45typ	рF	

External Dimensions FM20(TO220F) 10.1±0.2 10

■Typical Switching Characteristics (Common Emitter)

Vcc (V)	RL (Ω)	Ic (A)	V _{BB1} (V)	VBB2 (V)	I _{B1} (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)
150	60	2.5	10	-5	0.5	-1.0	0.3max	1.0max	0.1max