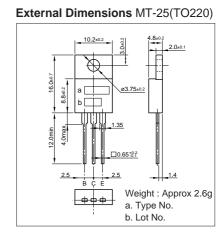
2SC3832

Silicon NPN Triple Diffused Planar Transistor (High Voltage and High Speed Switching Transistor)

Application: Switching Regulator and General Purpose

Absolute maximum ratings (Ta=25°C)					
Symbol	2SC3832	Unit			
Vсво	500	V			
VCEO	400	V			
VEBO	10	V			
Ic	7(Pulse14)	А			
Ів	2	А			
Pc	50(Tc=25°C)	W			
Tj	150	°C			
Tstg	-55 to +150	°C			

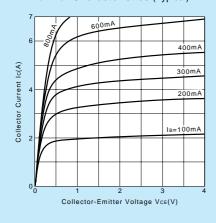
Electrical C	haracteristics	(Ta=25°C)			
Symbol	Conditions	2SC3832	Unit		
Ісво	Vcb=500V	100max	μΑ		
І ЕВО	V _{EB} =10V	100max	μΑ		
V(BR)CEO	Ic=25mA	400min	V		
hfe	Vce=4V, Ic=3A	10 to 30			
Vce(sat)	Ic=3A, IB=0.6A	0.5max	V		
VBE(sat)	Ic=3A, IB=0.6A	1.3max	V		
fт	Vce=12V, Ie=-0.5A	10typ	MHz		
Сов	VcB=10V, f=1MHz	50typ	pF		



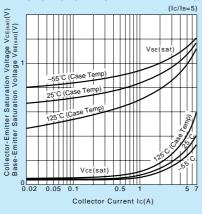
ì	Typical	Switching	Characteristics	(Common	Fmitter)
	i ypicai	Switching	Cital acteriotics	(00111111011	Lillittei)

Vcc (V)	R _L (Ω)	Ic (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)
200	66.7	3	10	-5	0.3	-0.6	1max	3max	0.5max

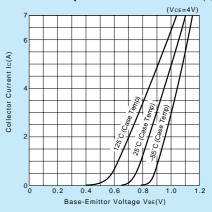




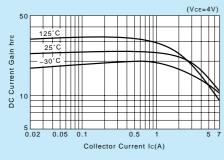
VcE(sat), VBE(sat)-Ic Temperature Characteristics (Typical)



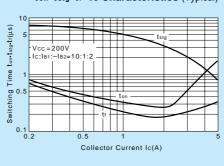
Ic-VBE Temperature Characteristics (Typical)

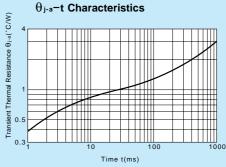


hfe-Ic Characteristics (Typical)

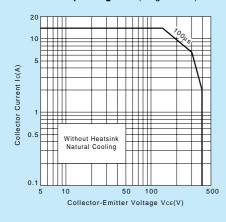


ton • tstg • tf-Ic Characteristics (Typical)

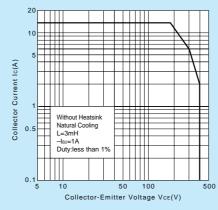




Safe Operating Area (Single Pulse)



Reverse Bias Safe Operating Area



Pc-Ta Derating

