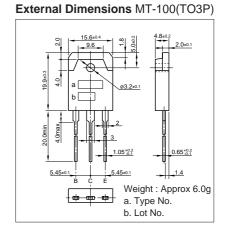
## 2SC3678

## Silicon NPN Triple Diffused Planar Transistor (High Voltage Switching Transistor)

Application: Switching Regulator and General Purpose

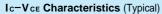
Absolute maximum ratings (Ta=25°C						
Symbol	2SC3678	Unit				
Vсво	900	V				
VCEO	800	V				
VEBO	7	V				
Ic	3(Pulse6)	А				
Ів	1.5	А				
Pc	80(Tc=25°C)	W				
Tj	150	°C				
Tstg	-55 to +150	°C				

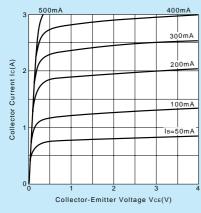
Electrical C	haracteristics	(Ta=25°C)		
Symbol	Conditions	2SC3678	Unit	
Ісво	Vcb=800V	100max	μΑ	
<b>І</b> ЕВО	VEB=7V	100max	μΑ	
V(BR)CEO	Ic=10mA	800min	V	
hfe	Vce=4V, Ic=1A	10 to 30		
Vce(sat)	Ic=1A, IB=0.2A	0.5max	٧	
VBE(sat)	Ic=1A, IB=0.2A	1.2max	V	
fr	Vce=12V, Ie=-0.3A	6typ	MHz	
Сов	Vcb=10V, f=1MHz	50typ	рF	



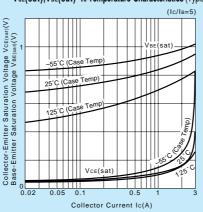
## Typical Switching Characteristics (Common Emitter)

77									
Vcc (V)	RL (Ω)	Ic (A)	V <sub>BB1</sub> (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)
250	250	1	10	-5	0.15	-0.5	1max	5max	1max

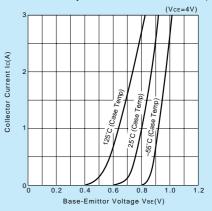




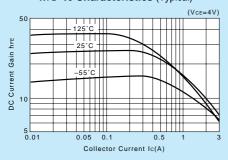
VcE(sat), VBE(sat)-Ic Temperature Characteristics (Typical)



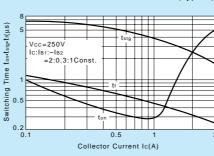
Ic-VBE Temperature Characteristics (Typical)



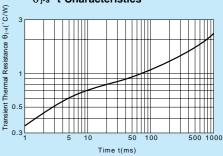
hfe-Ic Characteristics (Typical)



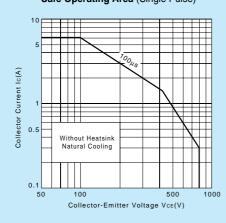
ton\*tstg\*tf-Ic Characteristics (Typical)



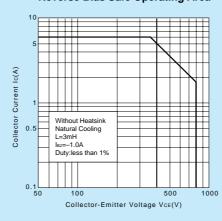
 $\theta_{j-a}$ -t Characteristics



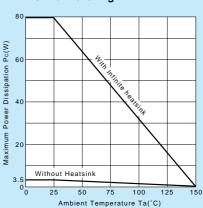
Safe Operating Area (Single Pulse)



Reverse Bias Safe Operating Area



Pc-Ta Derating



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.