## 2SC3927

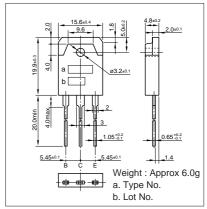
Silicon NPN Triple Diffused Planar Transistor (High Voltage Switching Transistor)

**Application:** Switching Regulator and General Purpose

Absolute maximum ratings (Ta=25°C)							
Symbol	2SC3927	Unit					
Vсво	900	V					
VCEO	550	V					
VEBO	7	V					
Ic	10(Pulse15)	Α					
Ів	5	А					
Pc	120(Tc=25°C)	W					
Tj	150	°C					
Tstg	-55 to +150	°C					

Electrical Cl	haracteristics	(Ta=25°C)		
Symbol	Conditions	2SC3927	Unit	
Ісво	Vcb=800V	100max	μΑ	
<b>I</b> EBO	VEB=7V	100max	μΑ	
V(BR)CEO	Ic=10mA	550min	V	
hfe	Vce=4V, Ic=5A	10 to 28		
Vce(sat)	Ic=5A, IB=1A	0.5max	V	
VBE(sat)	Ic=5A, IB=1A	1.2max	V	
fт	Vce=12V, Ie=-1A	6typ	MHz	
Сов	VcB=10V, f=1MHz	105typ	рF	

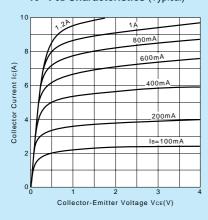
## External Dimensions MT-100(TO3P)



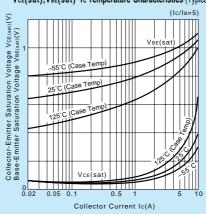
## ■Typical Switching Characteristics (Common Emitter)

Vcc (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)	
250	50	5	10	-5	0.75	-1.5	1max	5max	0.5max	

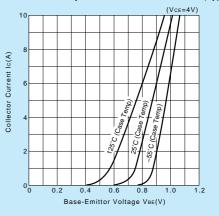
## Ic-VcE Characteristics (Typical)



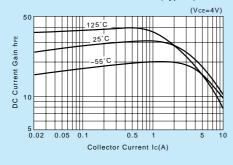
VcE(sat), VBE(sat)-Ic Temperature Characteristics (Typical)



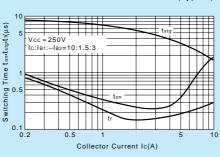
Ic-VBE Temperature Characteristics (Typical)



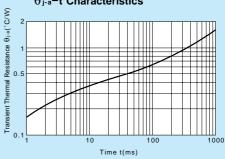
hFE-Ic Characteristics (Typical)



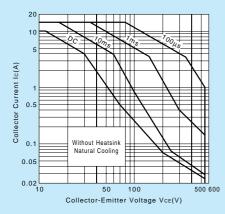
ton\*tstg\*tf-Ic Characteristics (Typical)



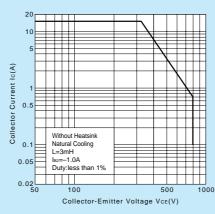
θ<sub>j-a</sub>-t Characteristics



Safe Operating Area (Single Pulse)



**Reverse Bias Safe Operating Area** 



Pc-Ta Derating

