

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	2SC4445
Manufacturer:	Sanken Electric USA Inc.
Package:	TO-3P-3 Full Pack
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/sanken-electric-usa-inc/2sc4445.html>

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

2SC4445

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

Application : Switching Regulator and General Purpose

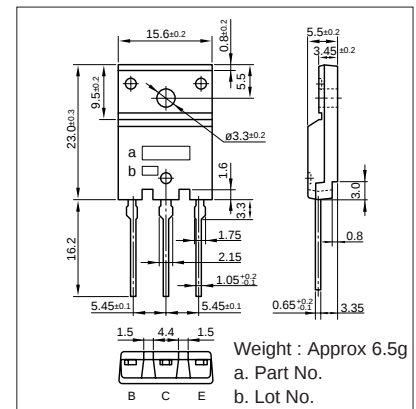
Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	900	V
V _{CE0}	800	V
V _{EB0}	7	V
I _C	3(Pulse6)	A
I _B	1.5	A
P _C	60(Tc=25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
I _{CB0}	V _{CB} =800V	100max	μA
I _{EB0}	V _{EB} =7V	100max	μA
V _{(BR)CEO}	I _C =10mA	800min	V
h _{FE}	V _{CE} =4V, I _C =0.7A	10 to 30	
V _{CE(sat)}	I _C =0.7A, I _B =0.14A	0.5max	V
V _{BE(sat)}	I _C =0.7A, I _B =0.14A	1.2max	V
f _r	V _{CE} =12V, I _E =-0.3A	15typ	MHz
C _{OB}	V _{CB} =10V, f=1MHz	50typ	pF

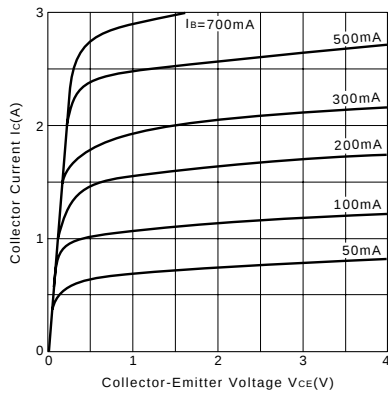
External Dimensions FM100(TO3PF)



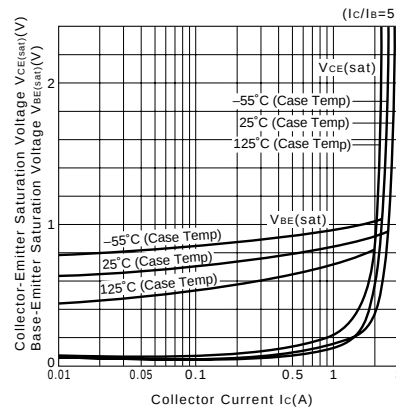
Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
250	357	0.7	10	-5	0.1	-0.35	0.7max	4max	0.7max

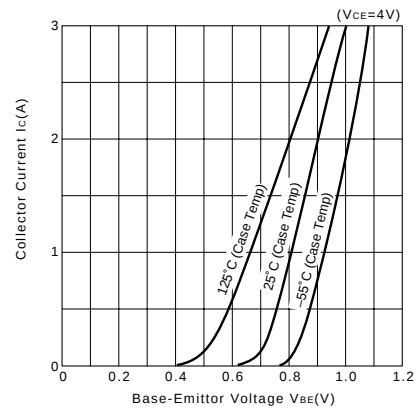
I_C-V_{CE} Characteristics (Typical)



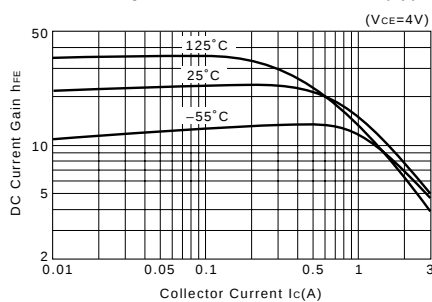
V_{CE(sat)}, V_{BE(sat)}-I_C Temperature Characteristics (Typical)



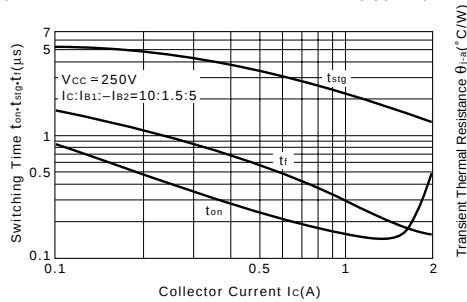
I_C-V_{BE} Temperature Characteristics (Typical)



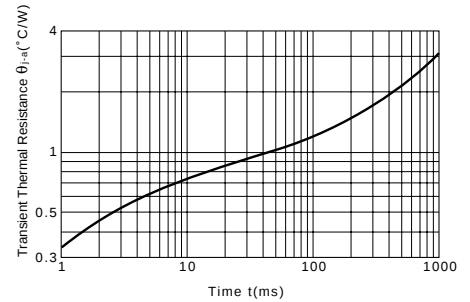
h_{FE}-I_C Temperature Characteristics (Typical)



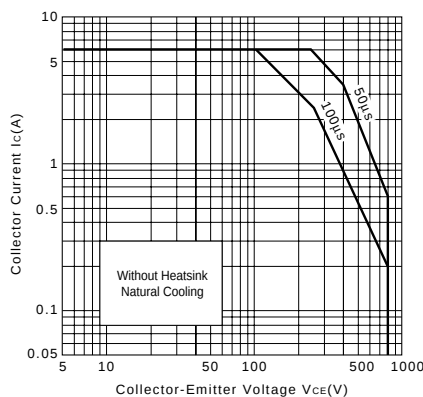
t_{on}•t_{stg}•t_f-I_C Characteristics (Typical)



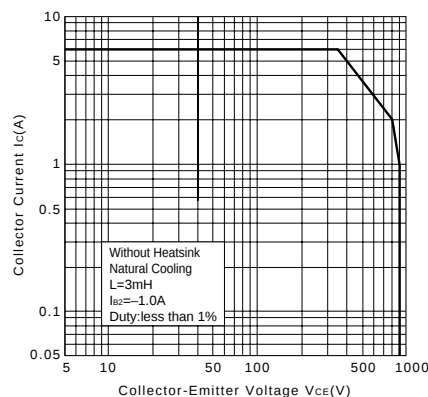
θ_{j-a}-t Characteristics



Safe Operating Area (Single Pulse)



Reverse Bias Safe Operating Area



P_C-T_a Derating

