

2SC4495

Application : Audio Temperature Compensation and General Purpose

(Ta=25°C)

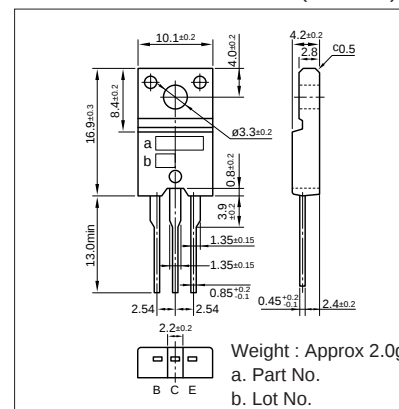
Symbol	Ratings	Unit
V _{CB0}	80	V
V _{CE0}	50	V
V _{EB0}	6	V
I _C	3	A
I _B	1	A
P _C	25(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Symbol	Conditions	Ratings	Unit
ICBO	$V_{CB}=80V$	10max	μA
IEBO	$V_{EB}=6V$	10max	μA
$V_{(BR)CEO}$	$I_C=25mA$	50min	V
h_{FE}	$V_{CE}=4V, I_C=0.5A$	500min	
$V_{CE(sat)}$	$I_C=1A, I_B=20mA$	0.5max	V
f_T	$V_{CE}=12V, I_E=-0.1A$	40typ	MHz
COB	$V_{CB}=10V, f=1MHz$	30typ	pF

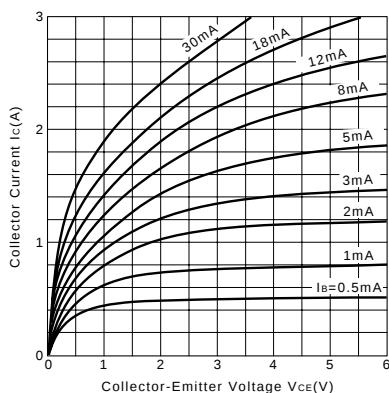
■ Typical Switching Characteristics (Common Emitter)

VCC (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
20	20	1	10	−5	15	−30	0.45 _{typ}	1.60 _{typ}	0.85 _{typ}

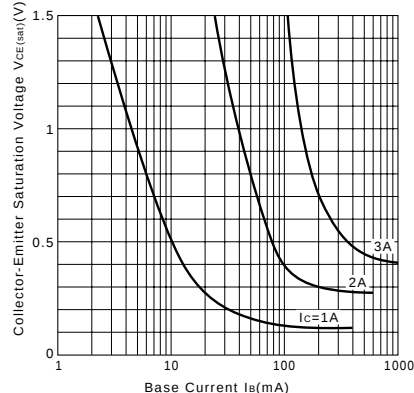
External Dimensions FM20(TO220F)



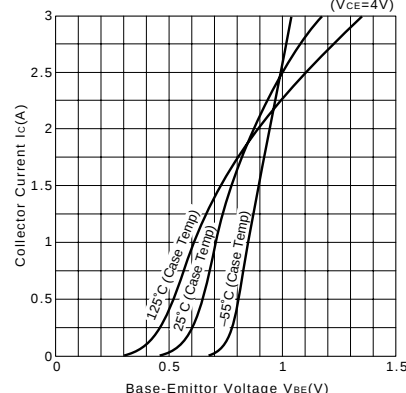
I_C-V_{CE} Characteristics (Typical)



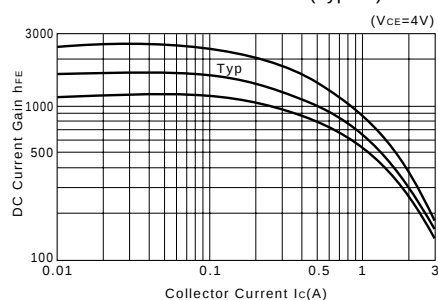
V_{CE(sat)}-I_B Characteristics (Typical)



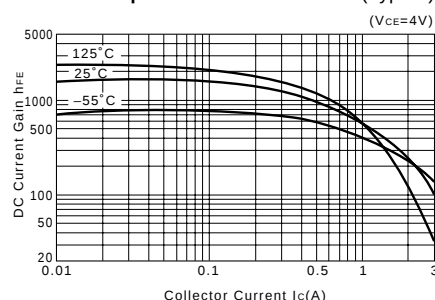
I_C-V_{BE} Temperature Characteristics (Typical)



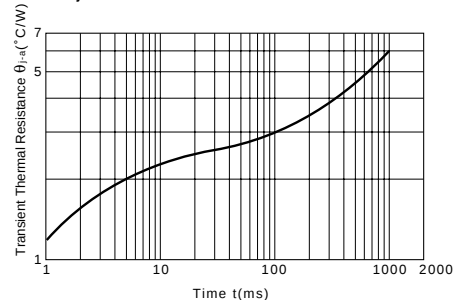
$h_{FE}-I_C$ Characteristics (Typical)



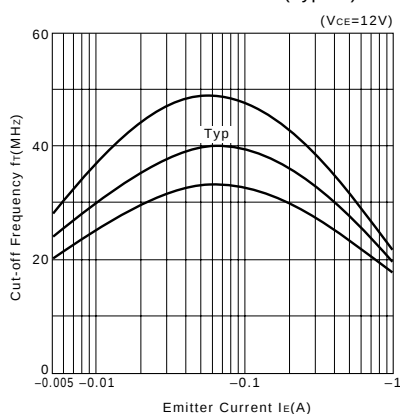
$h_{FE}-I_C$ Temperature Characteristics (Typical)



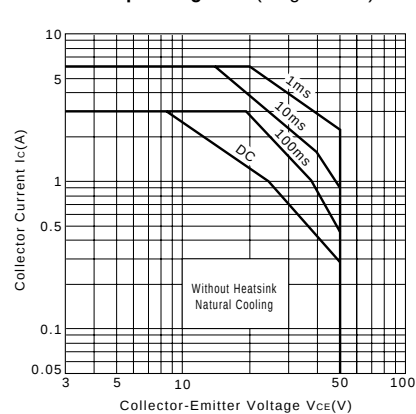
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

