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High hFE
 Low VCE (sat)

2SC4495

Silicon NPN Triple Diffused Planar Transistor

Application : Audio Temperature Compensation and General Purpose

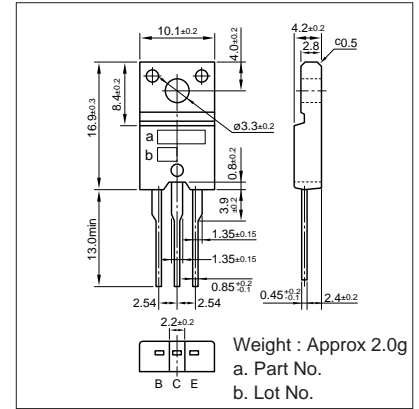
■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
Vcbo	80	V
Vceo	50	V
Vebo	6	V
Ic	3	A
Ib	1	A
Pc	25(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

■ Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
Icbo	VcB=80V	10max	μA
IEBO	VEB=6V	10max	μA
V(BR)CEO	Ic=25mA	50min	V
hFE	VCE=4V, Ic=0.5A	500min	
VCE(sat)	Ic=1A, Ib=20mA	0.5max	V
fr	VCE=12V, IE=-0.1A	40typ	MHz
COB	VcB=10V, f=1MHz	30typ	pF

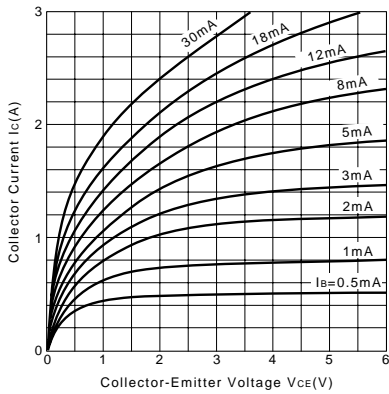
External Dimensions FM20(TO220F)



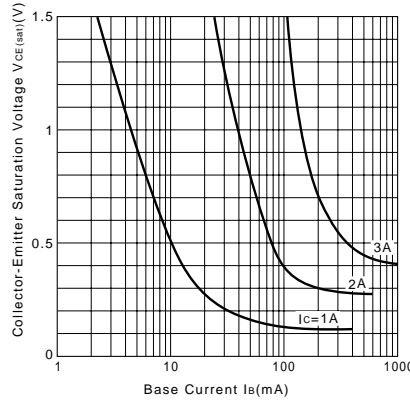
■ Typical Switching Characteristics (Common Emitter)

VCC (V)	RL (Ω)	Ic (A)	VBB1 (V)	VBB2 (V)	Ib1 (mA)	Ib2 (mA)	ton (μs)	tstg (μs)	tr (μs)
20	20	1	10	-5	15	-30	0.45typ	1.60typ	0.85typ

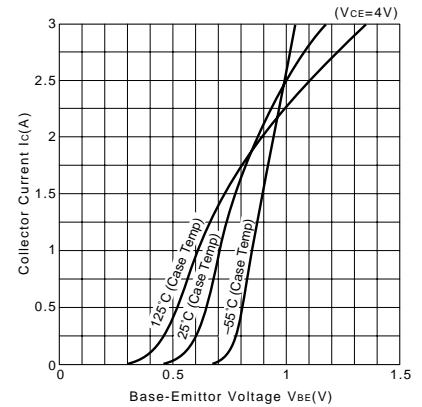
Ic-VCE Characteristics (Typical)



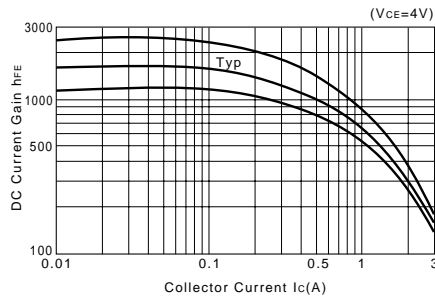
VCE(sat)-Ib Characteristics (Typical)



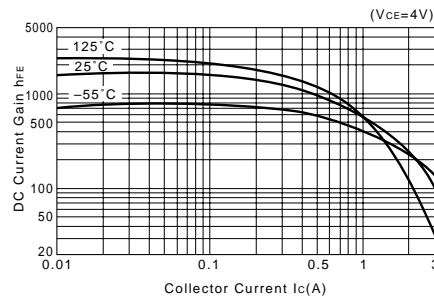
Ic-VBE Temperature Characteristics (Typical)



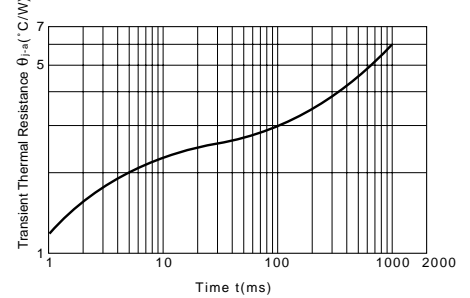
hFE-Ic Characteristics (Typical)



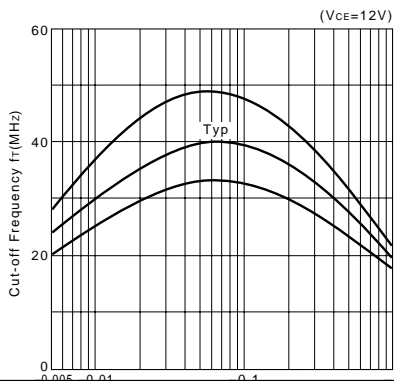
hFE-Ic Temperature Characteristics (Typical)



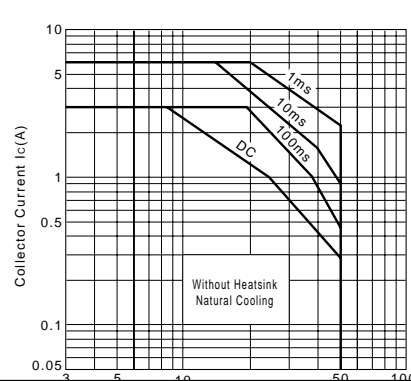
θj-a-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

