

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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High hFE Low VCE (sat) 2SC4495

Silicon NPN Triple Diffused Planar Transistor

Application: Audio Temperature Compensation and General Purpose

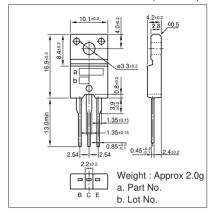
■Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit	
Vсво	80	V	
VCEO	50	V	
VEBO	6	V	
Ic	3	Α	
Ів	1	Α	
Pc	25(Tc=25°C)	W	
	150	°C	
Tstg	-55 to +150	°C	

■Electrical Characteristics

■Electrical Cl	naracteristics	(Ta=25°C)		
Symbol	Conditions	Ratings	Unit	
Ісво	Vcb=80V	10max	μΑ	
І ЕВО	VEB=6V	10max	μΑ	
V(BR)CEO	Ic=25mA	50min	V	
hfE	VCE=4V, IC=0.5A	500min		
VcE(sat)	Ic=1A, IB=20mA	0.5max	V	
fτ	VCE=12V, IE=-0.1A	40typ	MHz	
Сов	Vcb=10V,f=1MHz	30typ	pF	

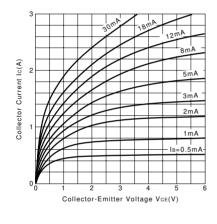
External Dimensions FM20(TO220F)



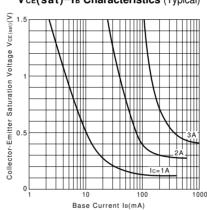
■Typical Switching Characteristics (Common Emitter)

Vcc	RL	Ic	V _{BB1} (V)	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(µs)	(μs)	(μs)
20	20	1	10	- 5	15	-30	0.45typ	1.60typ	0.85typ

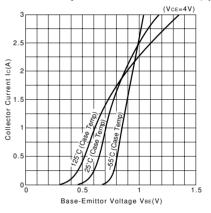
Ic-VcE Characteristics (Typical)



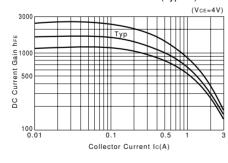
VcE(sat)-IB Characteristics (Typical)



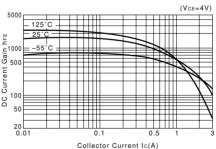
Ic-VBE Temperature Characteristics (Typical)



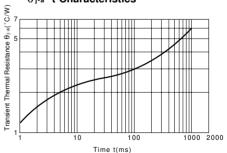
hfe-Ic Characteristics (Typical)



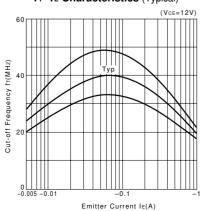
hfe-Ic Temperature Characteristics (Typical)



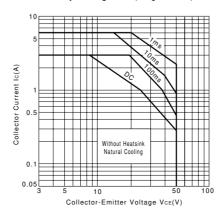
θ_{j-a}-t Characteristics



f_T−I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

