

Power Transistor FP812

Absolute Maximum Ratings (Ta=25°C)

Symbol	Ratings	Unit
VCBO	-120	V
VCEO	-120	V
VEBO	-6	V
IC	-8 (pulse -12)	A
IB	-3	A
PC	35 (Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

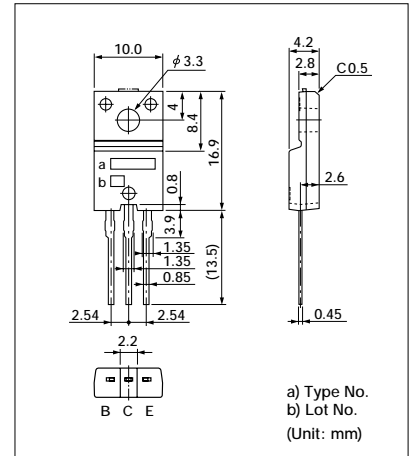
Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings	Unit
ICBO	VCB = -120V	10max	μA
IEBO	VEB = -6V	10max	μA
VCEO	IC = -50mA	-120min	V
hFE	VCE = -4V, IC = -3A	70min	
VCE(sat)	IC = -3A, IB = -0.3A	-0.3max	V

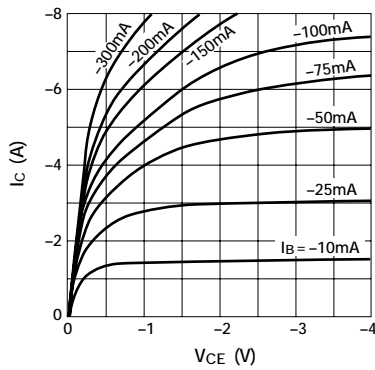
Typical Switching Characteristics

VCC (V)	RL (Ω)	IC (A)	VBB1 (V)	VBB2 (V)	IB1 (mA)	IB2 (mA)	ton (μs)	tstg (μs)	tr (μs)
12	4	3	-10	5	-30	30	2.5	0.4	0.6

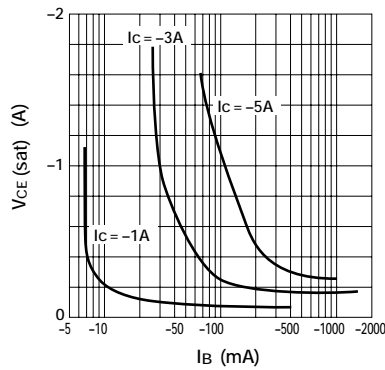
External Dimensions FM20 (full-mold)



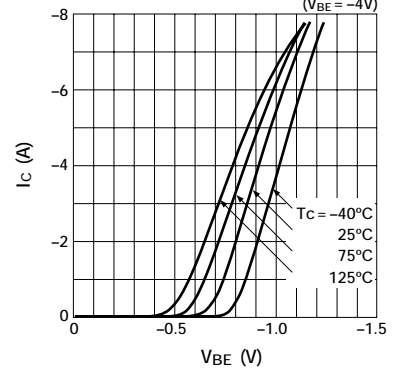
IC — VCE Characteristics (typ.)



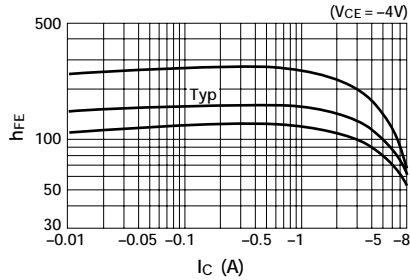
VCE(sat) — IB Characteristics (typ.)



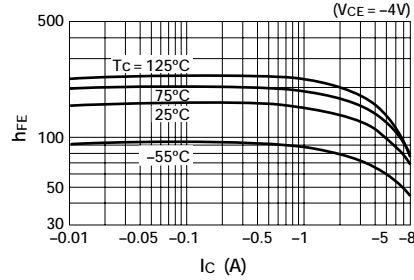
IC — VBE Temperature Characteristics (typ.)



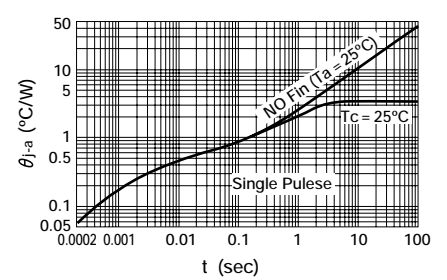
hFE — IC Characteristics (typ.)



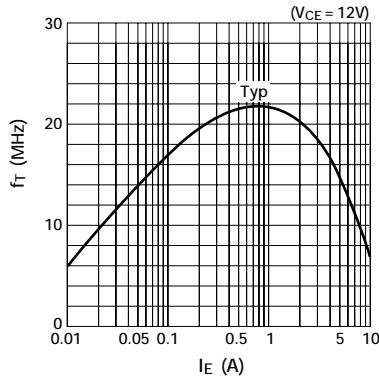
hFE — IC Temperature Characteristics (typ.)



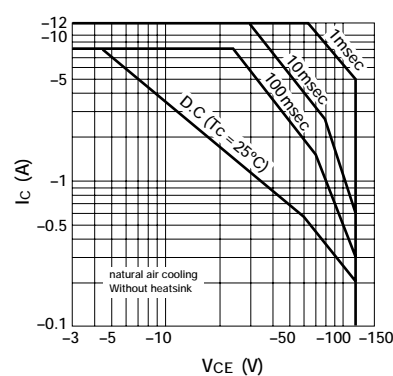
θJA — t Characteristics



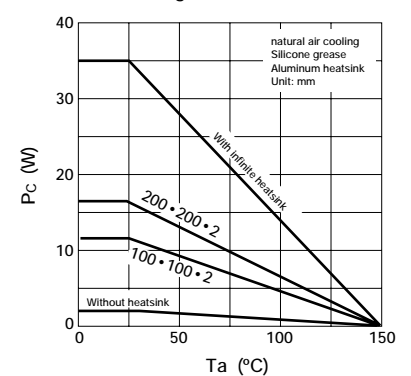
fT — IE Characteristics (typ.)



Safe Operating Area (single pulse)



PC — Ta Derating



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Datasheets for electronic components.