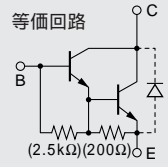


ダーリントン 2SD2045



シリコンNPN三重拡散プレーナ型トランジスタ

用途：ソレノイド、モータ駆動、一般用

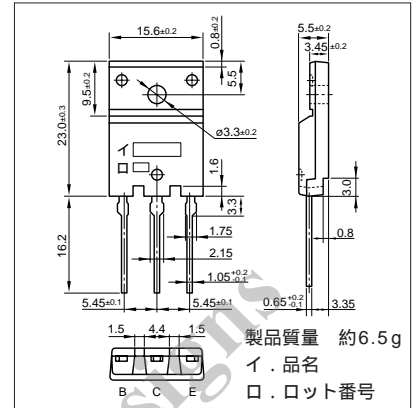
絶対最大定格 (Ta = 25)

記号	規格値	単位
V _{CB0}	120	V
V _{CEO}	120	V
V _{EB0}	6	V
I _C	6(パルス10)	A
I _B	1	A
P _C	50(T _C = 25)	W
T _j	150	
T _{stg}	- 55 ~ + 150	

電気的特性 (Ta = 25)

記号	試験条件	規格値	単位
I _{CB0}	V _{CB} = 120V	10max	μA
I _{EB0}	V _{EB} = 6V	10max	mA
V(BR) _{CEO}	I _C = 10mA	120min	V
h _{FE}	V _{CE} = 2V, I _C = 3A	2000min	
V _{CE(sat)}	I _C = 3A, I _B = 3mA	1.5max	V
V _{BE(sat)}	I _C = 3A, I _B = 3mA	2.0max	V
f _r	V _{CE} = 12V, I _E = - 1A	50typ	MHz
C _{OB}	V _{CB} = 10V, f = 1MHz	70typ	pF

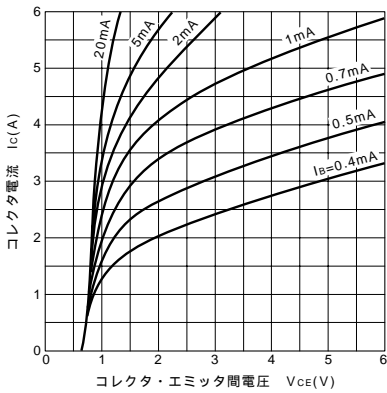
外形図 FM100(T03PF)



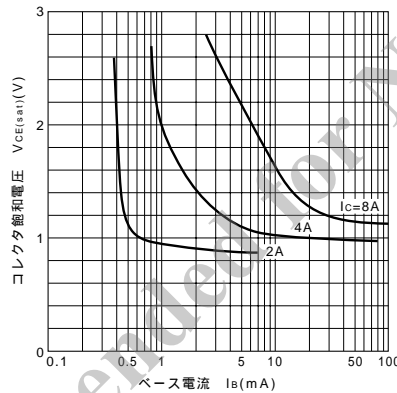
代表的スイッチング特性 (エミッタ接地)

V _{CC} (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)
30	10	3	10	-5	3	-3	0.5typ	5.5typ	1.5typ

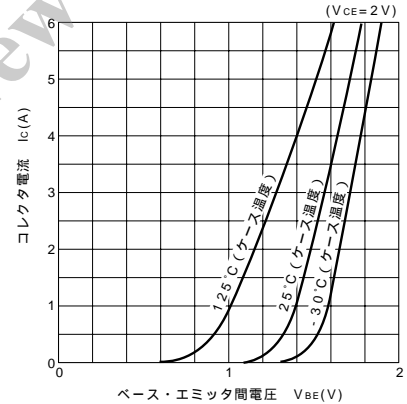
I_C-V_{CE}特性 (代表例)



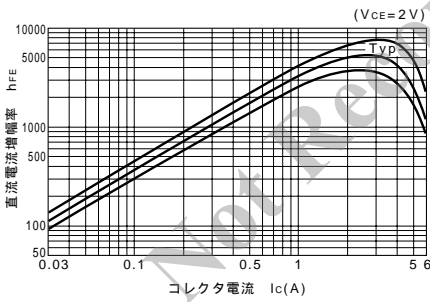
V_{CE(sat)}-I_B特性 (代表例)



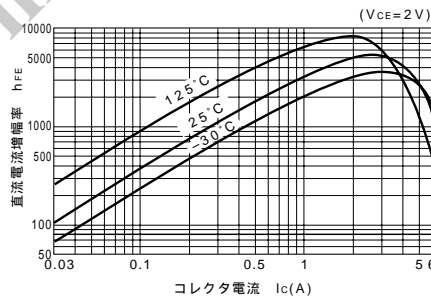
I_C-V_{BE}温度特性 (代表例)



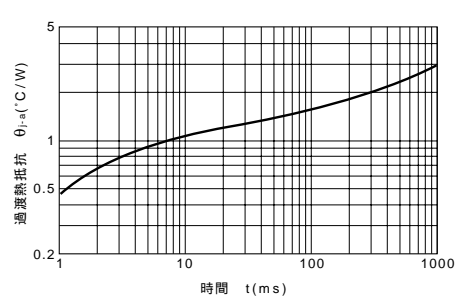
h_{FE}-I_C特性 (代表例)



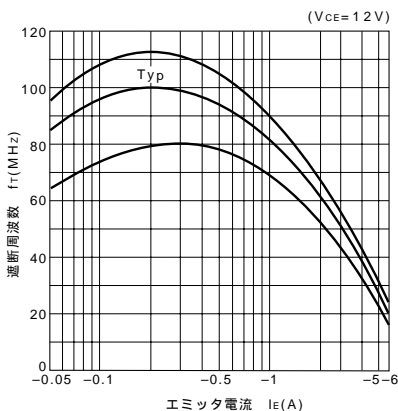
h_{FE}-I_C温度特性 (代表例)



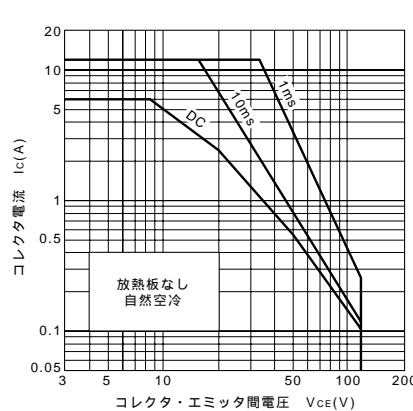
θ_{j-a}-t特性



f_T-I_E特性 (代表例)



ASO曲線 (単発パルス)



P_C-T_a定格

