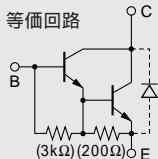


ダーリントン

2SD2014



シリコンNPN三重拡散プレーナ型トランジスタ (2SB1257とコンプリメンタリ)

用途:ソレノイド、リレー、モータ駆動、シリーズレギュレータ、一般用

絶対最大定格 (Ta = 25 °C)

記号	規格値	単位
V _{CBO}	120	V
V _{CEO}	80	V
V _{EBO}	6	V
I _c	4	A
I _b	0.5	A
P _c	25(T _c = 25 °C)	W
T _j	150	
T _{tsg}	-55 ~ +150	

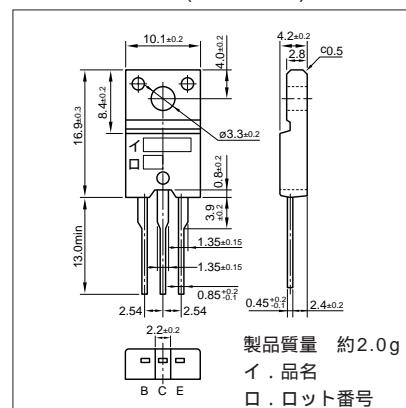
電気的特性 (Ta = 25 °C)

記号	試験条件	規格値	単位
I _{cBO}	V _{CB} = 120V	10max	μA
I _{eBO}	V _{EB} = 6V	10max	mA
V _{(BR)CEO}	I _c = 10mA	80min	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 _t	V _{CE} = 12V, I _e = -0.1A	75typ	MHz
C _{OB}	V _{CB} = 10V, f = 1MHz	45typ	pF

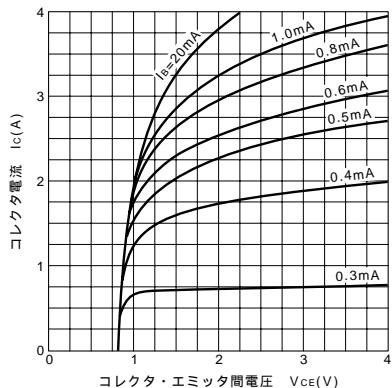
代表的スイッチング特性 (エミッタ接地)

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 _{tsg} (μs)	t _f (μs)
30	10	3	10	-5	10	-10	1.0typ	4.0typ	1.5typ

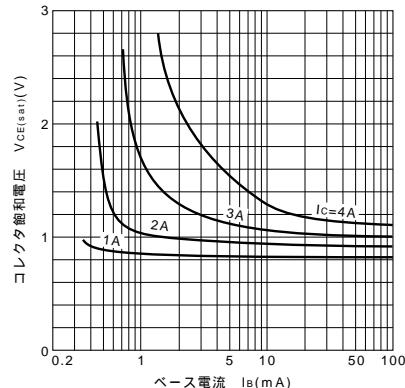
外形図 FM20(T0220F)



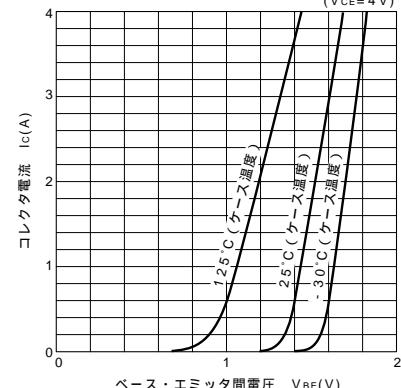
I_c-V_{CE}特性 (代表例)



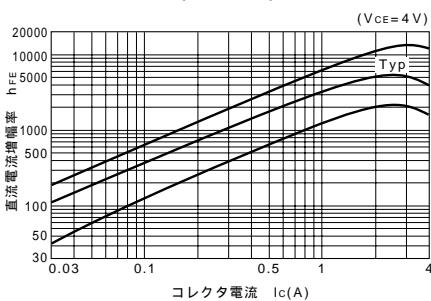
V_{CE(sat)}-I_b特性 (代表例)



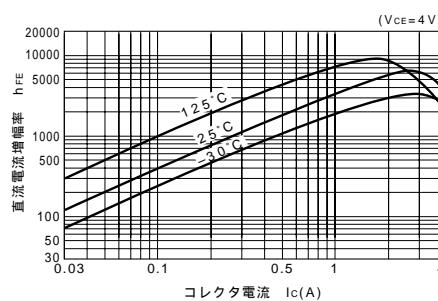
I_c-V_{BE}温度特性 (代表例)



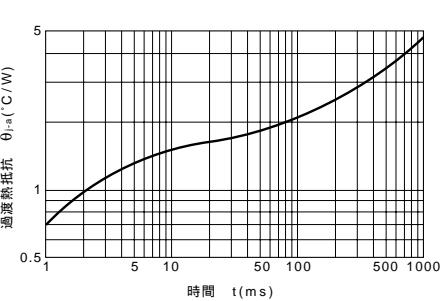
h_{FE}-I_c特性 (代表例)



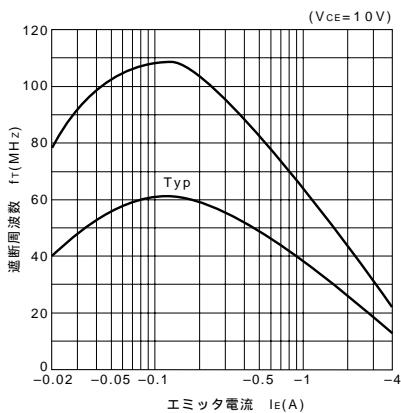
h_{FE}-I_c温度特性 (代表例)



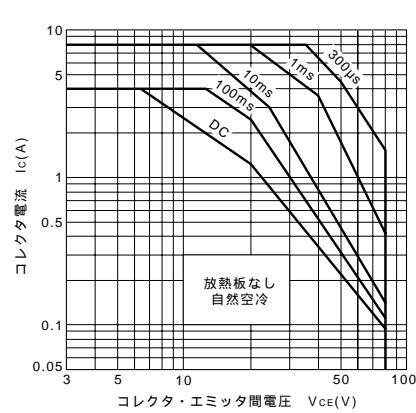
θ_{j-a-t}特性



f_t-I_e特性 (代表例)



ASO曲線 (単発パルス)



P_c-Ta定格

