SLA6026

PNP＋NPN ダーリントン
3相モータドライブ用

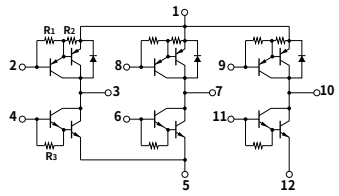
外形図Ⓐ…SLA(12 pin)

絶対最大定格

(T_a＝25℃)

記　号	定　格		単　位
	NPN	PNP	
V_{CBO}	60	−60	V
V_{CEO}	60	−60	V
V_{EBO}	6	−6	V
I_C	10	−10	A
I_{CP}	15 ($PW \leqq 1ms$, $Du \leqq 50\%$)	−15 ($PW \leqq 1ms$, $Du \leqq 50\%$)	A
I_{FEC}	—	−10	A
I_{FECP}	—	−15	A
I_B	0.5	−0.5	A
P_T	5 (T_a＝25℃)		W
	35 (T_c＝25℃)		
V_{ISO}	1000 (Fin−リード端子間, AC)		V_{rms}
T_j	150		℃
T_{stg}	−40〜＋150		℃
θ_{j-c}	3.57		℃/W

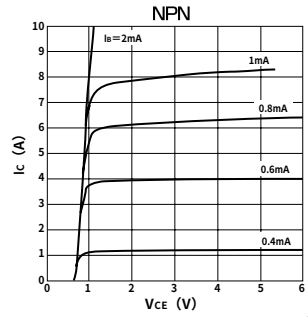
■等価回路図

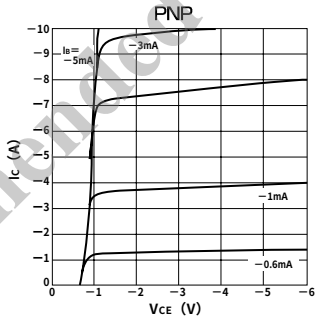


R_1: 2kΩtyp R_2: 80Ωtyp R_3: 2kΩtyp

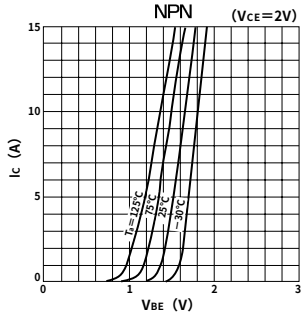
特性曲線

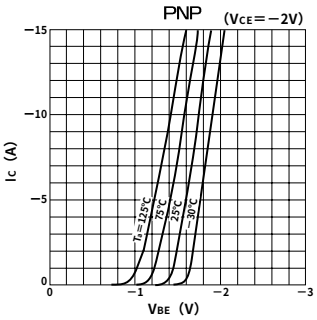
I_C-V_{CE}特性(代表例)



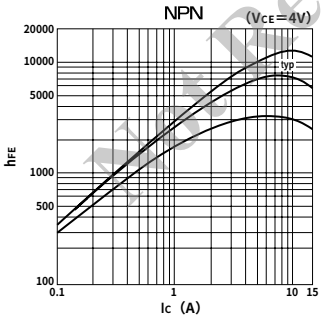


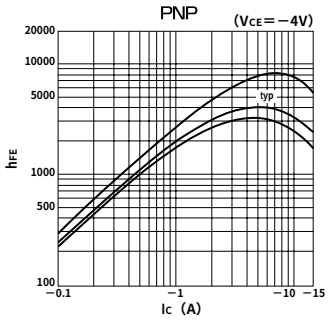
I_C-V_{BE}温度特性(代表例)



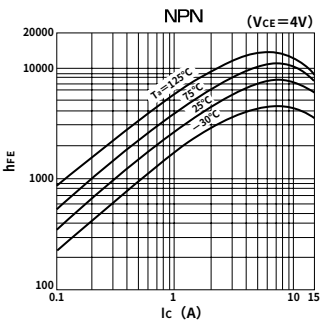


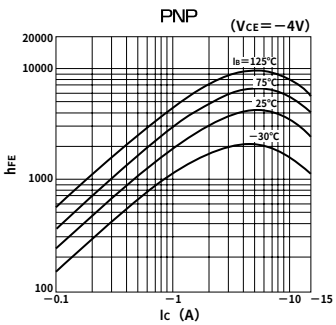
h_{FE}-I_C特性(代表例)





h_{FE}-I_C温度特性(代表例)





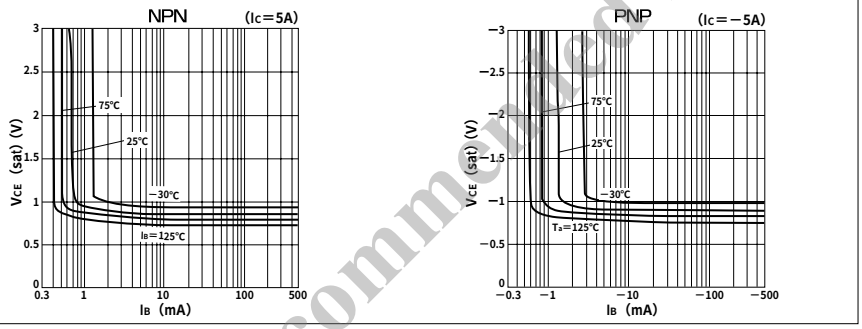
電気的特性

(Ta＝25℃)

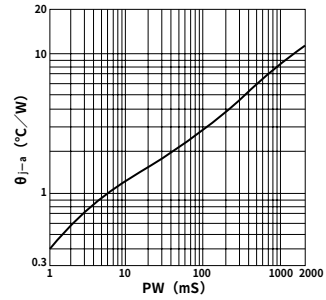
記号	NPN					PNP				
	規格値			単位	条件	規格値			単位	条件
	min	typ	max			min	typ	max		
I_{CBO}			10	μA	V_{CB}＝60V			−10	μA	V_{CB}＝−60V
I_{EBO}			10	μA	V_{EB}＝6V			−10	mA	V_{EB}＝−6V
V_{CEO}	60			V	I_C＝10mA	−60			V	I_C＝−10mA
h_{FE}	2000	5000	12000		V_{CE}＝4V, I_C＝6A	2000	5000	12000		V_{CE}＝−4V, I_C＝−6A
V_{CE}(sat)			1.5	V	I_C＝6A, I_B＝12mA			−1.5	V	I_C＝−6A, I_B＝−12mA
V_{BE}(sat)			2.0	V				−2.0	V	
V_{FEC}		−		V				2.0	V	I_{FEC}＝−6A
t_{rr}		−		μs			4.0		μs	I_{FEC}＝±0.5A
t_{on}		0.6		μs	V_{CC} 24V,		0.7		μs	V_{CC} −24V,
t_{stg}		2.0		μs	I_C＝6A,		1.2		μs	I_C＝−6A,
t_f		1.5		μs	I_{B1}＝−I_{B2}＝12mA		0.7		μs	I_{B1}＝−I_{B2}＝−12mA
f_T		50		MHz	V_{CE}＝12V, I_E＝−1A		50		MHz	V_{CE}＝−12V, I_E＝1A
C_{ob}		100		pF	V_{CB}＝10V, f＝1MHz		180		pF	V_{CB}＝−10V, f＝1MHz

特性曲線

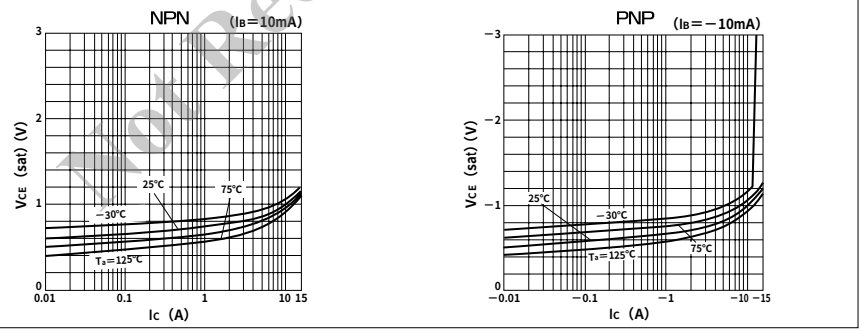
V_{CE}(sat)-I_B特性(代表例)



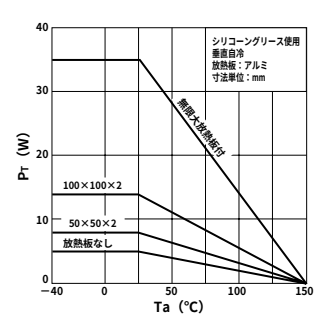
θ_{j-a}-PW特性



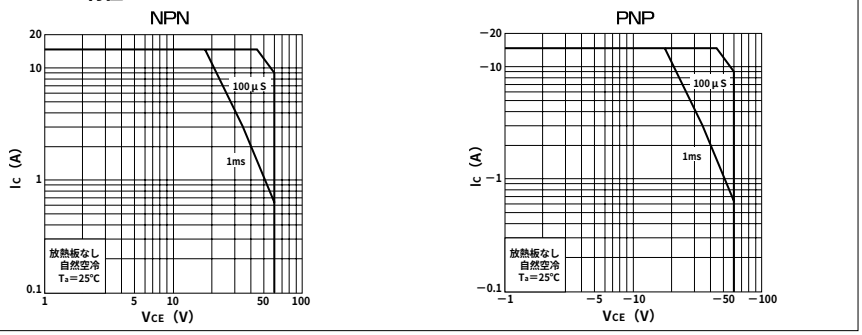
V_{CE}(sat)-I_C温度特性(代表例)



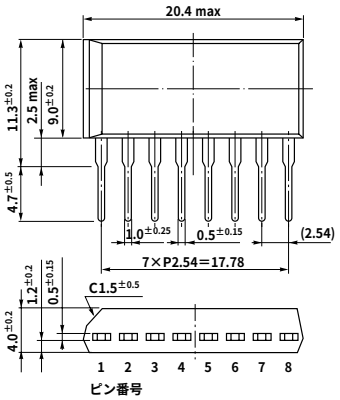
P_T-Ta特性



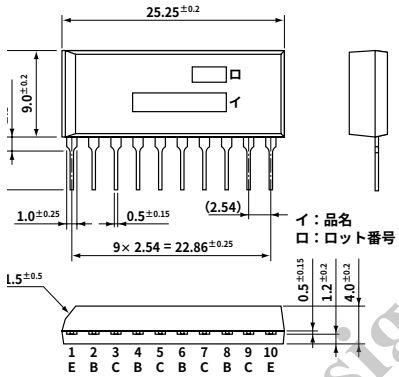
ASO特性



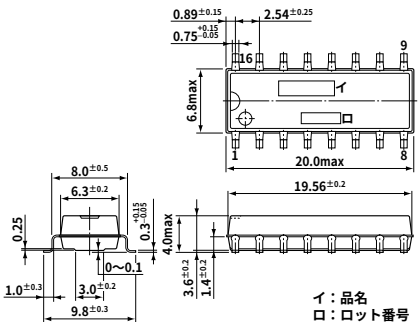
・STA 8 pin（SIP8Pin）



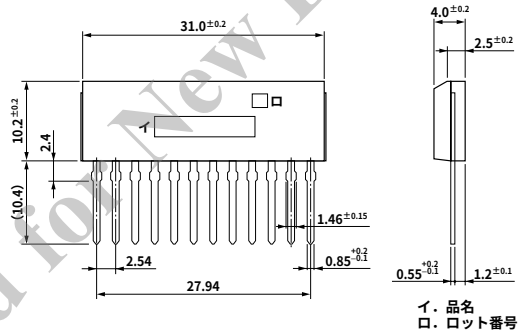
・STA 10 pin（SIP10Pin）



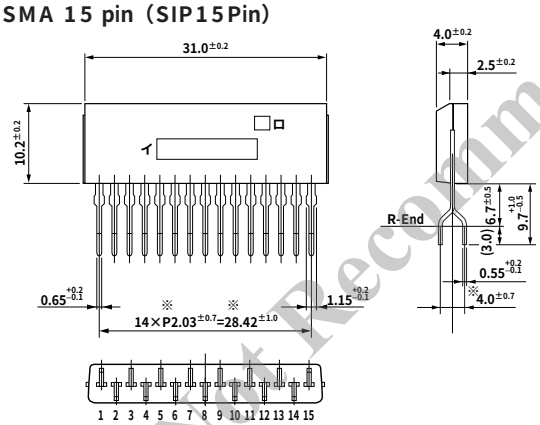
・SD 16 pin（SMD16Pin）



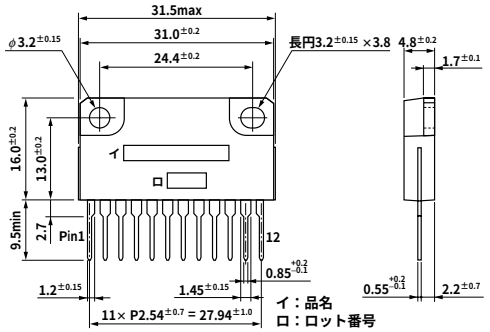
・SMA 12 pin（SIP12Pin）



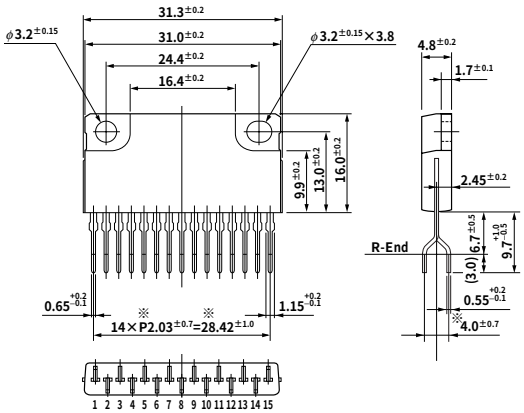
・SMA 15 pin（SIP15Pin）



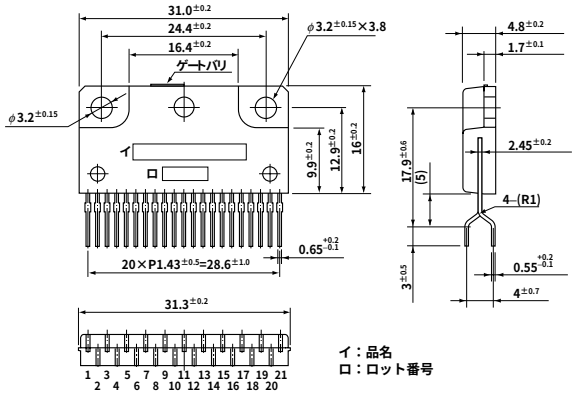
・SLA 12 pin（SIP12Pin フィン付）



・SLA 15 pin（SIP15Pin フィン付）



・SLA 21 pin（SIP21Pin フィン付）



（単位：mm）