

絶対最大定格

(Ta = 25)

記号	定格	単位
V _{DSS}	500	V
V _{GSS}	±30	V
I _D	±5	A
I _D (pulse)	±10(PW 1ms, Du 1%)	A
E _{AS}	45	mJ
P _T	5(Ta = 25, 全回路動作, No Fin)	W
	60(Tc = 25, 全回路動作, Fin)	
j-a	25(接合-外気間, Ta = 25, 全回路動作)	/W
j-c	2.0(接合-ケース間, Tc = 25, 全回路動作)	/W
T _{ch}	150	
T _{stg}	-40 ~ +150	

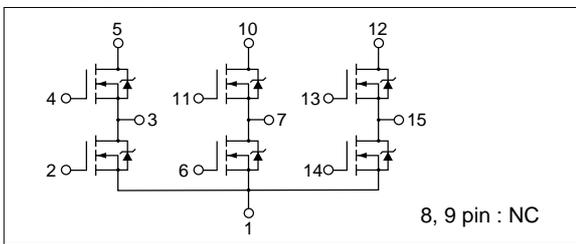
:V_{DD} = 30V, L = 3.4mH, I_D = 5A, unclamped, R_G = 50 , P15図E参照

電気的特性

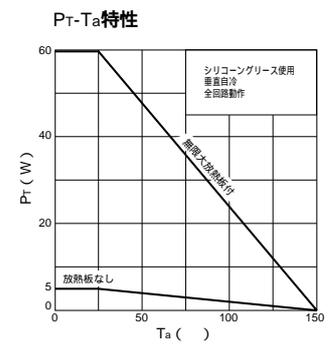
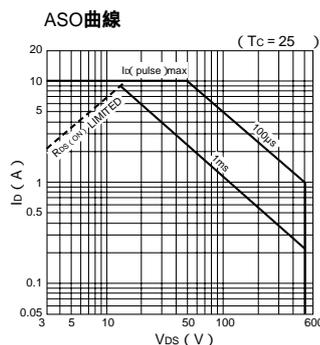
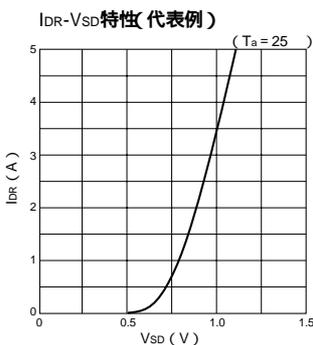
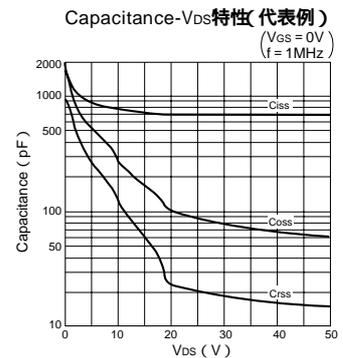
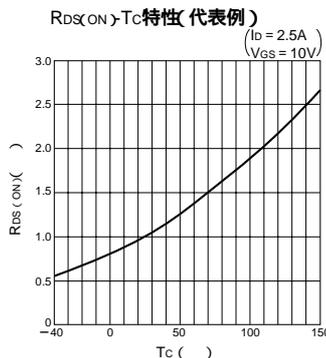
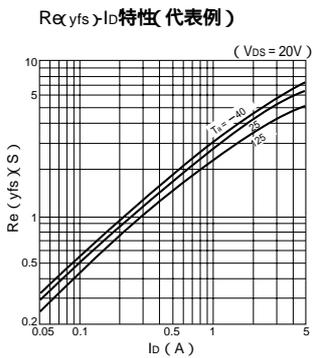
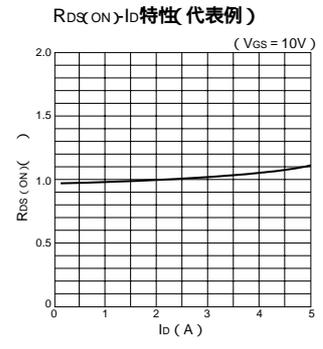
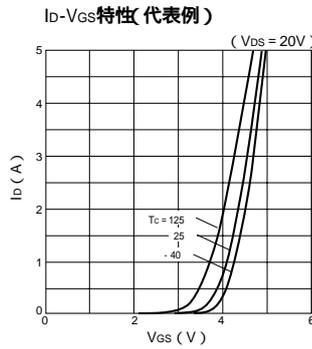
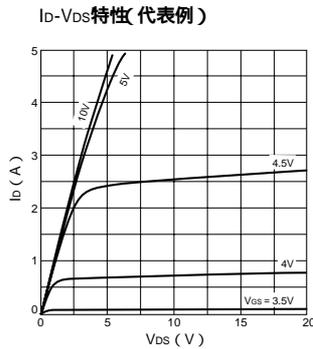
(Ta = 25)

記号	規格値			単位	条件
	min	typ	max		
V _{(BR)DSS}	500			V	I _D = 100 μA, V _{GS} = 0V
I _{GSS}			±100	nA	V _{GS} = ±30V
I _{DSS}			100	μA	V _{DS} = 500V, V _{GS} = 0V
V _{TH}	2.0		4.0	V	V _{DS} = 10V, I _D = 1mA
R _{ex(yf)}	2.4	4.0		S	V _{DS} = 10V, I _D = 2.5A
R _{DSON}		1.05	1.4		V _{GS} = 10V, I _D = 2.5A
C _{iss}		770		pF	V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V
C _{oss}		290		pF	
t _{d(on)}		20		ns	I _D = 2.5A, V _{DD} = 200V, R _L = 80 , V _{GS} = 10V, P16図3参照
t _r		25		ns	
t _{d(off)}		70		ns	
t _f		65		ns	
V _{SD}		1.1	1.5	V	
t _{rr}		75		ns	I _{SD} = 2.5A, di/dt = 100A/μs

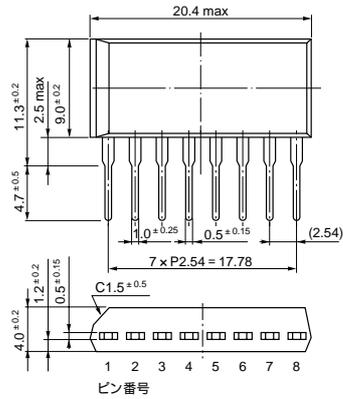
等価回路図



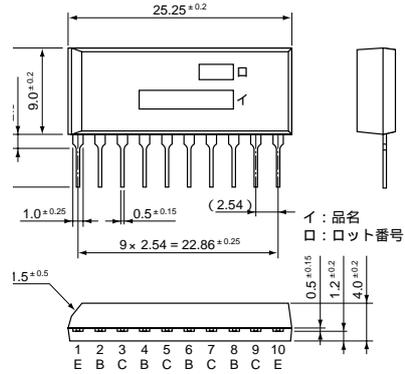
特性曲線



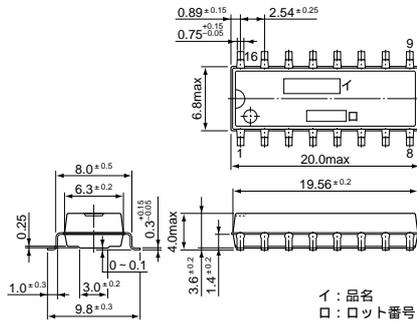
・ STA 8 pin (SIP8Pin)



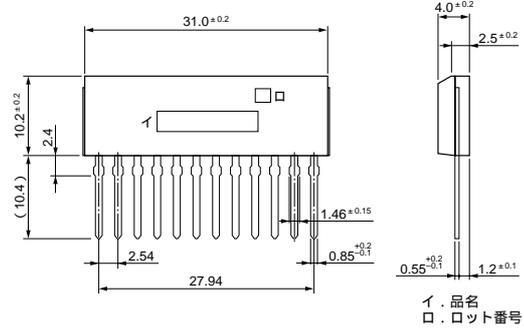
・ STA 10 pin (SIP10Pin)



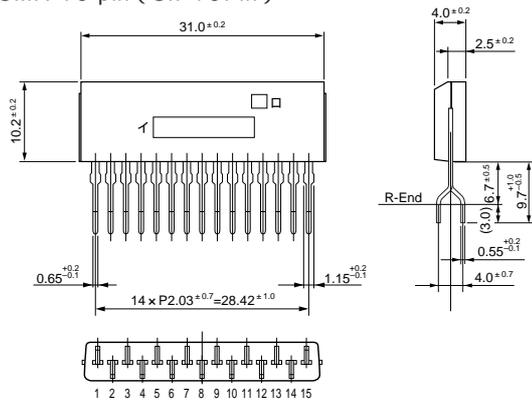
・ SD 16 pin (SMD16Pin)



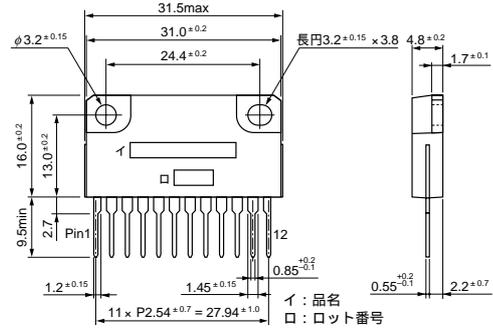
・ SMA 12 pin (SIP12Pin)



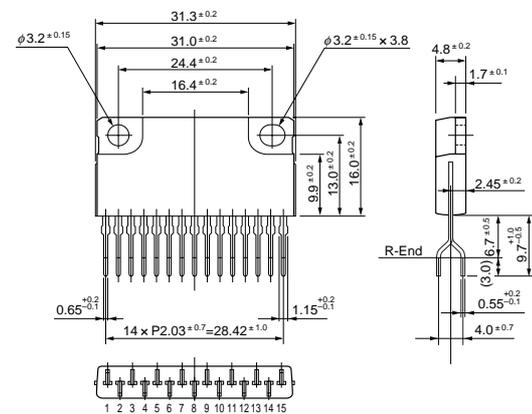
・ SMA 15 pin (SIP15Pin)



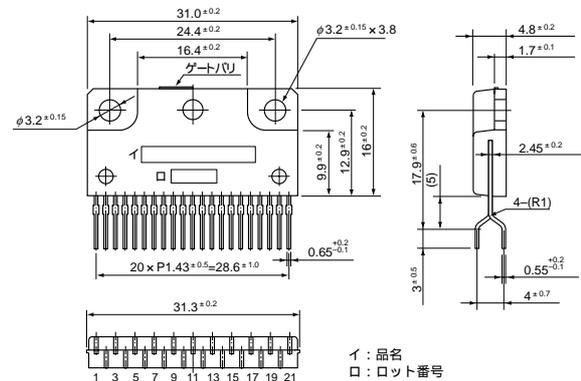
・ SLA 12 pin (SIP12Pin フィン付)



・ SLA 15 pin (SIP15Pin フィン付)



・ SLA 21 pin (SIP21Pin フィン付)



(単位: mm)