

### 絶対最大定格

(Ta = 25 )

記号	定格	単位
V <sub>DSS</sub>	200	V
V <sub>GSS</sub>	± 20	V
I <sub>D</sub>	± 10	A
I <sub>D(pulse)</sub>	± 40 (PW 1ms, Du 1%)	A
EAS	120	mJ
P <sub>T</sub>	5 (Ta = 25 , 全回路動作, No Fin)	W
	40 (Tc = 25 , 全回路動作, Fin)	W
j-a	25 ( 接合 - 外気間, Ta = 25 , 全回路動作 )	/W
j-c	3.13 ( 接合 - ケース間, Tc = 25 , 全回路動作 )	/W
V <sub>ISO</sub>	1000 (Fin - リード端子間, AC)	V <sub>rms</sub>
T <sub>ch</sub>	150	
T <sub>stg</sub>	- 40 ~ + 150	

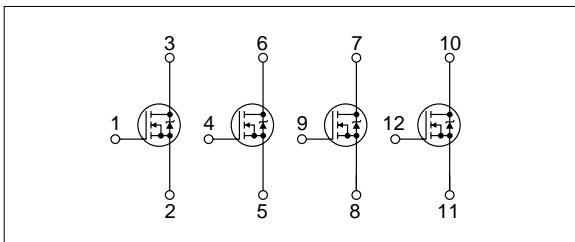
: V<sub>DD</sub> = 25V, L = 2.1mH, I<sub>D</sub> = 10A, unclamped, R<sub>G</sub> = 50 , P15図E参照

### 電気的特性

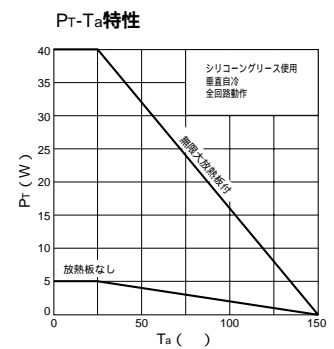
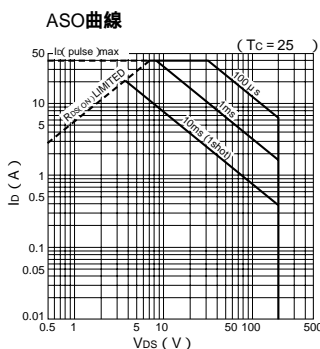
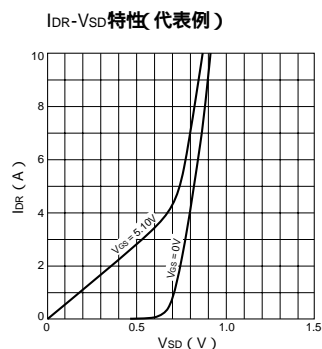
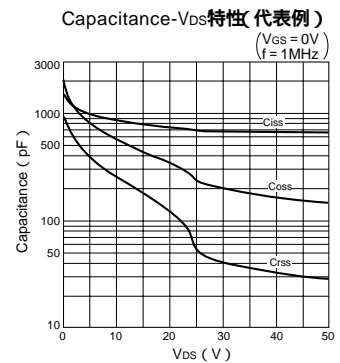
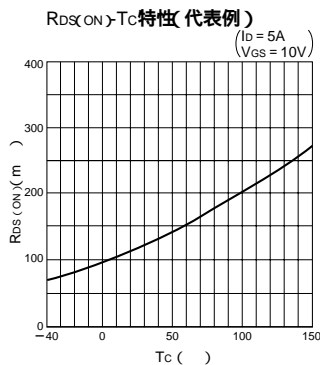
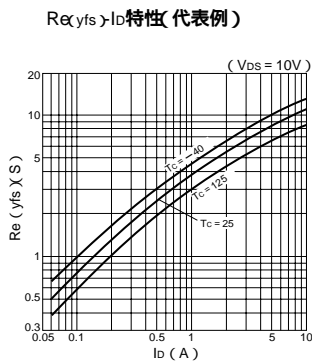
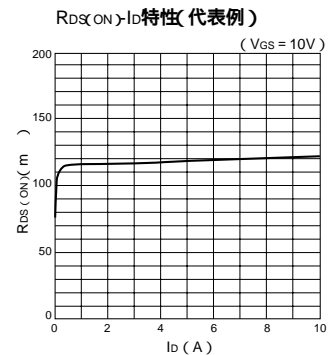
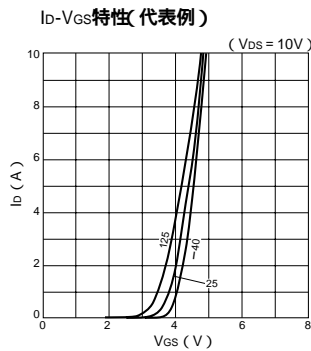
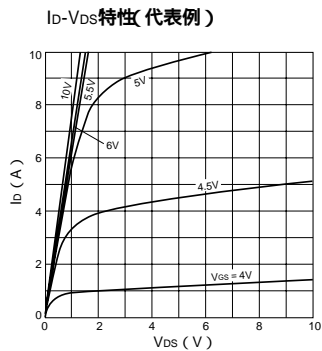
(Ta = 25 )

記号	規格値			単位	条件
	min	typ	max		
V <sub>(BR)DSS</sub>	200			V	I <sub>D</sub> = 100 μA, V <sub>GS</sub> = 0V
I <sub>GSS</sub>			± 100	nA	V <sub>GS</sub> = ± 20V
I <sub>DSS</sub>			100	μA	V <sub>DS</sub> = 200V, V <sub>GS</sub> = 0V
V <sub>TH</sub>	2.0		4.0	V	V <sub>DS</sub> = 10V, I <sub>D</sub> = 1mA
R <sub>e(yfs)</sub>	5.0	8.5		S	V <sub>DS</sub> = 10V, I <sub>D</sub> = 5A
R <sub>D(on)</sub>		130	175	m	V <sub>GS</sub> = 10V, I <sub>D</sub> = 5A
C <sub>iss</sub>		850		pF	V <sub>DS</sub> = 10V, f = 1.0MHz, V <sub>GS</sub> = 0V
C <sub>oss</sub>		550		pF	
t <sub>d(on)</sub>		20		ns	I <sub>D</sub> = 5A, V <sub>DD</sub> = 100V, R <sub>L</sub> = 20 , V <sub>GS</sub> = 10V, P16図3参照
t <sub>r</sub>		25		ns	
t <sub>d(off)</sub>		70		ns	
t <sub>f</sub>		70		ns	
V <sub>SD</sub>	1.0	1.5		V	
t <sub>rr</sub>		500		ns	I <sub>SD</sub> = ± 100mA

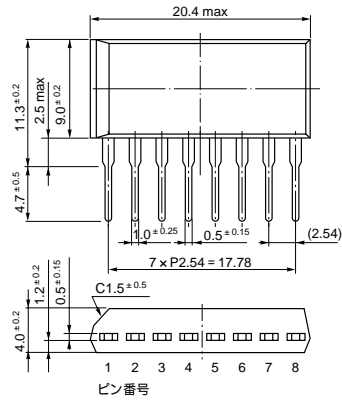
### 等価回路図



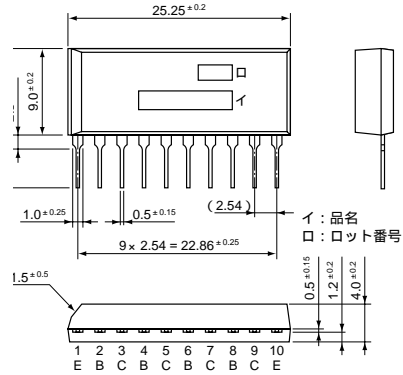
### 特性曲線



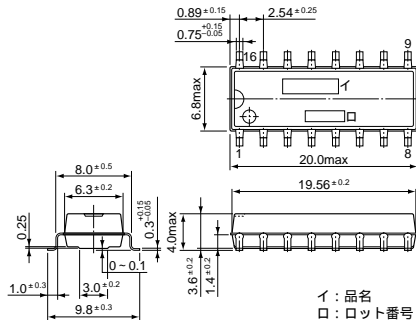
・ STA 8 pin (SIP8Pin)



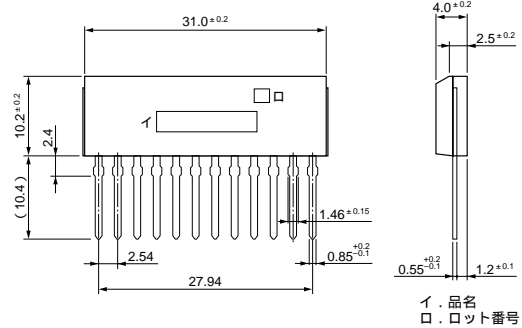
・ STA 10 pin (SIP10Pin)



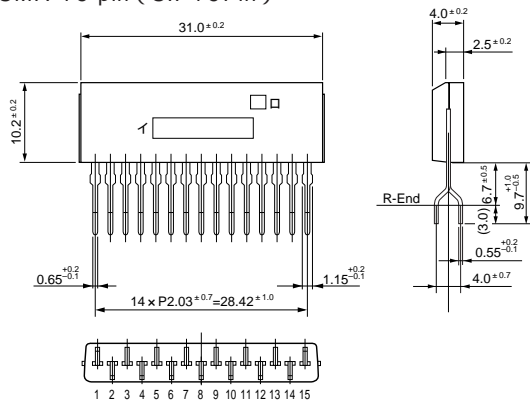
・ SD 16 pin (SMD16Pin)



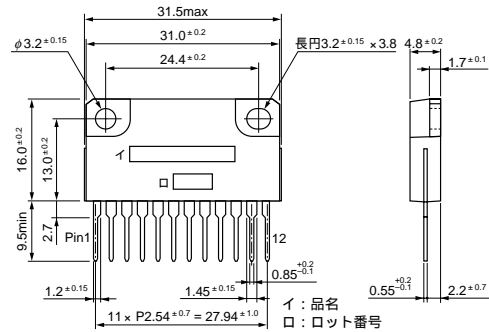
・ SMA 12 pin (SIP12Pin)



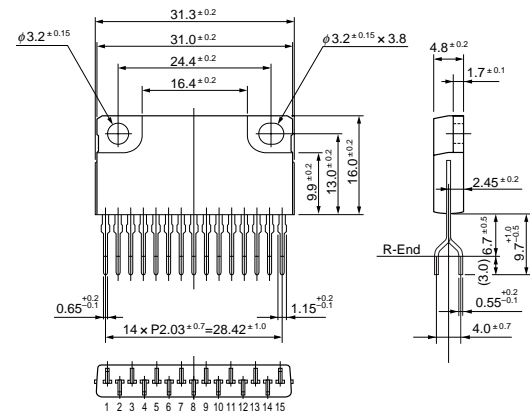
・ SMA 15 pin (SIP15Pin)



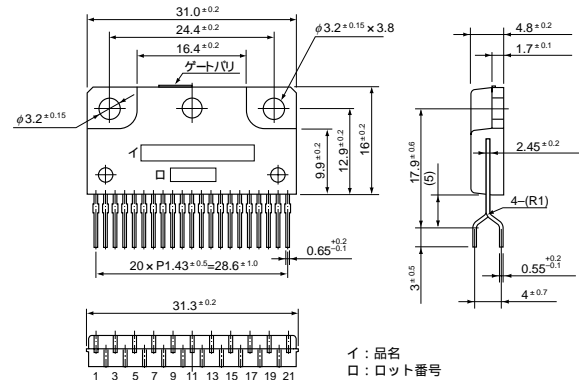
・ SLA 12 pin (SIP12Pin フィン付)



・ SLA 15 pin (SIP15Pin フィン付)



・ SLA 21 pin (SIP21Pin フィン付)



(単位: mm)