

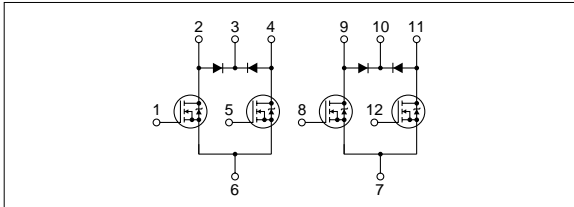
絶対最大定格

(Ta = 25)

記号	定格	単位
Vbss	100	V
Vgss	± 10	V
Id	± 4	A
Id (pulse)	± 8 (PW 1ms)	A
EAS	16	mJ
If	4 (PW 0.5ms, Du 25%)	A
IfSM	8 (PW 10ms, 単発パルス)	A
Vr	120	V
Pr	4 (Ta = 25 , 全回路動作, No Fin)	W
	28 (Tc = 25 , 全回路動作, Fin)	W
j-a	31.2 (接合 - 外気間, Ta = 25 , 全回路動作)	/W
j-c	4.46 (接合 - ケース間, Tc = 25 , 全回路動作)	/W
Tch	150	
Tstg	- 40 ~ + 150	

: VDD = 20V, L = 1mH, Id = 5A, unclamped, P15図E参照

等価回路図



電気的特性

(Ta = 25)

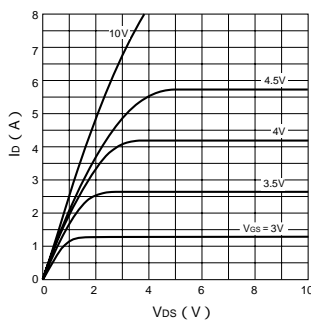
記号	規格値			単位	条件
	min	typ	max		
V(BR)DSS	100			V	Id = 250 μA, Vgs = 0V
Igss			± 500	nA	Vgs = ± 10V
IdSS			250	μA	Vds = 100V, Vgs = 0V
VTH	1.0		2.0	V	Vds = 10V, Id = 250 μA
Re (yfs)	1.1	1.7		S	Vds = 10V, Id = 4A
Rds(ON)		0.47	0.55		Vgs = 10V, Id = 2A
		0.60	0.78		Vgs = 4V, Id = 2A
Ciss	230			pF	Vds = 25V, f = 1.0MHz, Vgs = 0V
Coss	60			pF	
ton		60		ns	Id = 4A, VDD 50V, Vgs = 10V, P16図3参照
toff		50		ns	
VSD		1.2	2.0	V	Isd = 4A, Vgs = 0V
trr		250		ns	Isd = ± 100mA

フライバック電圧吸収用ダイオード

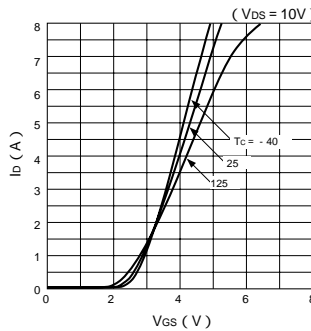
記号	規格値			単位	条件
	min	typ	max		
Vr	120			V	Ir = 10 μA
Vf		1.0	1.2	V	If = 1A
Ir			10	μA	Vr = 120V
trr		100		ns	If = ± 100mA

特性曲線

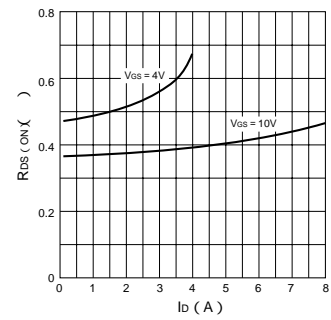
Id-Vds特性 (代表例)



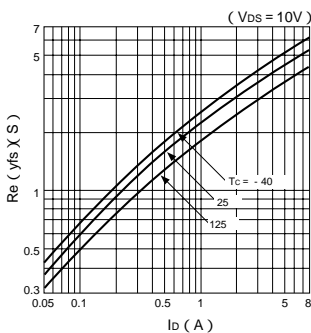
Id-Vgs特性 (代表例)



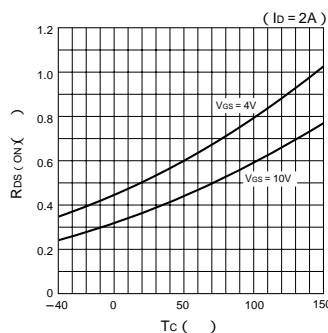
Rds(ON)-Id特性 (代表例)



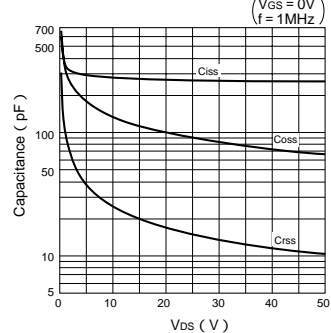
Re (yfs)-Id特性 (代表例)



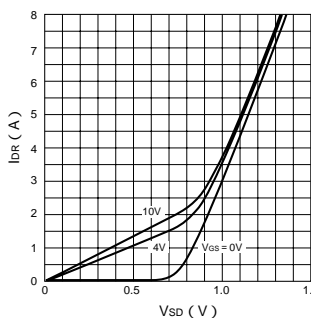
Rds(ON)-Tc特性 (代表例)



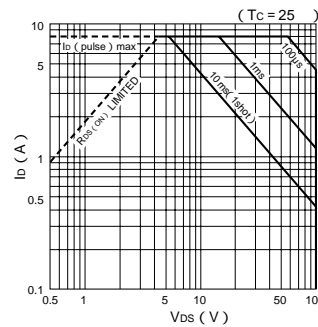
Capacitance-Vds特性 (代表例)



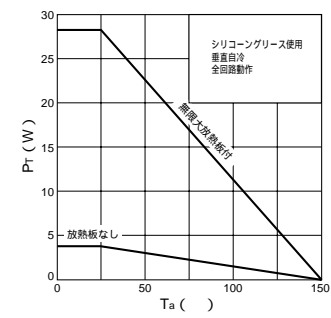
IdR-VSD特性 (代表例)



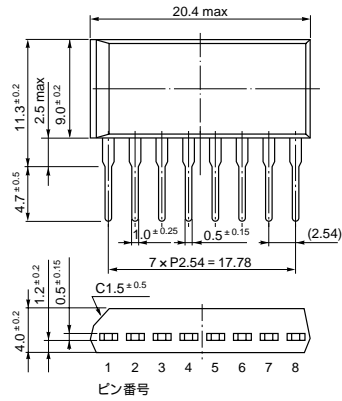
ASO曲線



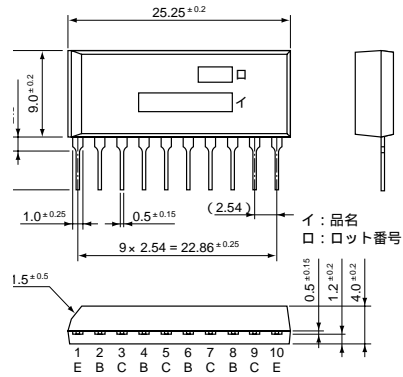
Pr-Ta特性



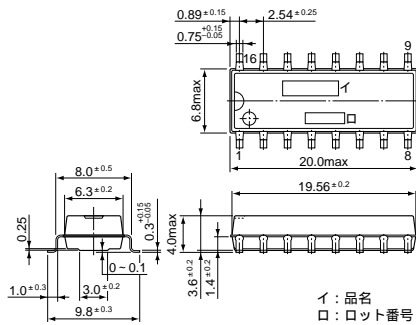
・ STA 8 pin (SIP8Pin)



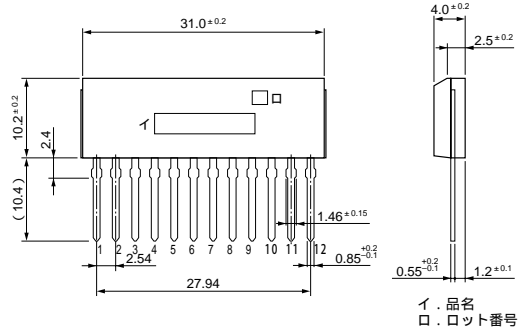
・ STA 10 pin (SIP10Pin)



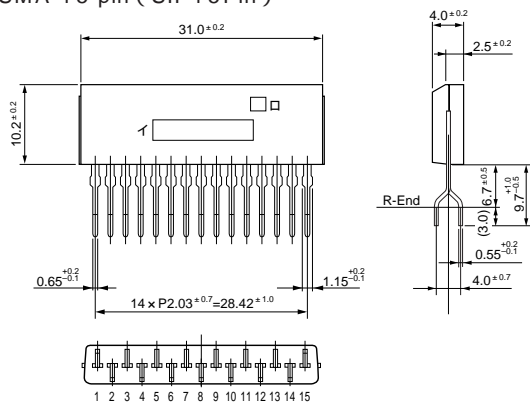
・ SD 16 pin (SMD16Pin)



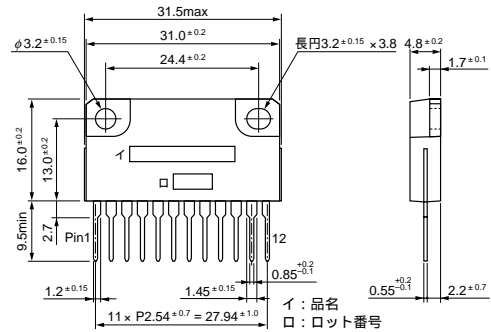
・ SMA 12 pin (SIP12Pin)



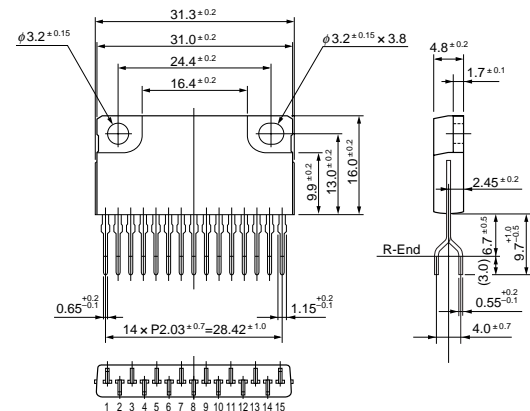
・ SMA 15 pin (SIP15Pin)



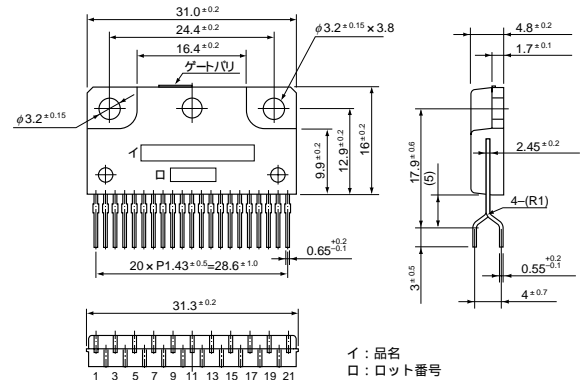
・ SLA 12 pin (SIP12Pin フィン付)



・ SLA 15 pin (SIP15Pin フィン付)



・ SLA 21 pin (SIP21Pin フィン付)



(単位: mm)