

Small-signal MOS FETs

Features *Very low noise figure *Large $|Y_{fs}|$ *Low gate leak current
*Small-sized package, permitting FET-used sets to be made smaller

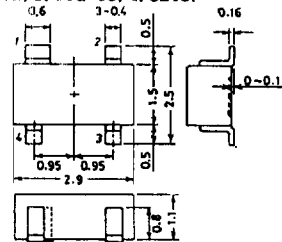
Case Outlines (unit:mm)
SANYO-C-4

LF Amp, Low Noise, Analog Switch Impedance Conversion Applications

Type No. ():Marking	Package	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C				
		V_{DS} (V)	I_D (mA)	P_D (mW)	$ Y_{fs} $ typ (mS)	C_{iss} typ (PF)	C_{rss} typ (PF)	V_{GS} (V)	$R_{DS(on)}$ typ (Ω)
2SK1839(JJ)	MCP	30	100	150	50	12	0.4	10	15
2SK536(BJ)	CP	50	100	200	40	15	0.5	10	20
2SK1840(JJ)	CP	30	100	200	50	12	0.4	10	15
3SK248(NJ)	CP4	10	100	200	80	50	5	5	5
2SK669	SFA	50	100	200	40	15	0.5	10	20
2SK1841	CP	30	100	200	50	12	0.4	10	15
2SK583	NP	50	200	600	40	15	0.5	10	20

1. Source, 2. Drain, 3. Gate, 4. Gate.
3SK180, 3SK181, 3SK189, 3SK251, 3SK263, 3SK264,
3SK265, 3SK266

1. Back Gate, 2. Drain, 3. Source, 4. Gate.
3SK248

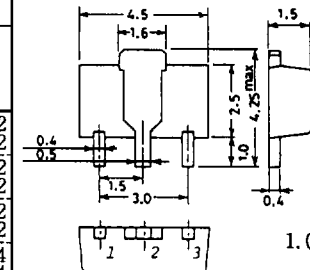


SANYO:PCP

1. Source, 2. Drain, 3. Gate.

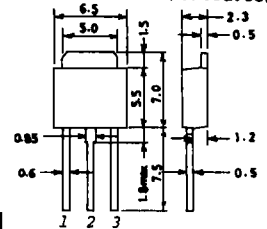
J187, J190, J193, J287, J288, J289, K1311, K1467,
K1470, K1473, K1724, K1726, K1728, K2167, K2168,
K2260.

1. Drain, 2. Gate, 3. Source.
K2171, K2218



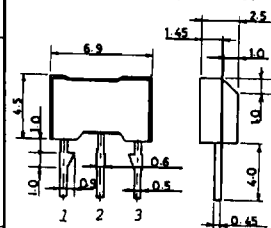
SANYO:TP

1. Gate, 2. Drain, 3. Source.



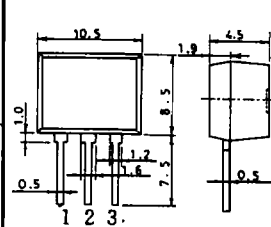
SANYO:NMP

1. Source, 2. Drain, 3. Gate.



SANYO:FLP

1. Source, 2. Drain
3. Gate.



HF Amp Applications ☆:MES FET.

Type No. ():Marking	Package	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C				
		V_{DS} (V)	I_D (mA)	P_D (mW)	$ Y_{fs} $ typ (mS)	C_{iss} typ (PF)	C_{rss} typ (PF)	V_{DS} (V)	I_{DSS} *IDSX (mA)
2SK1067(CJ)	MCP	16	30	150	11	2.3	0.035	10	1.2 ~ 12
2SK2268(WJ)	MCP	15	30	150	11	2.7	0.015	6	1.2 ~ 12
2SK543(CJ)	CP	20	30	200	11	2.4	0.035	10	1.2 ~ 12
2SK2269(WJ)	CP	15	30	200	11	2.7	0.015	6	1.2 ~ 12
2SK544	SFA	20	30	300	11	2.4	0.035	10	1.2 ~ 12
2SK2270	SFA	15	30	300	11	2.7	0.015	6	1.2 ~ 12
3SK180(DJ)	CP4	15	30	200	20	3	0.02	10	2.5 ~ 24
3SK181(EJ)	CP4	15	30	200	18	3	0.02	10	2.5 ~ 24
3SK189(IJ)	CP4	13	50	200	19	0.6	0.02	5	8.5 ~ 40
3SK251(PJ)	CP4	15	30	200	18	5	0.02	10	2.5 ~ 24
3SK263(RJ)	CP4	15	30	200	14	2.7	0.015	8	2.5 ~ 24
3SK264(SJ)	CP4	15	30	200	18	2.5	0.015	10	2.5 ~ 24
3SK265(TJ)	CP4	15	30	200	22	4.5	0.015	10	2.5 ~ 24
3SK266(UJ)	CP4	13.5	30	200	20	1.7	0.015	10	2.5 ~ 24

High-voltage SW, High-speed SW.

*:Tc=25°C

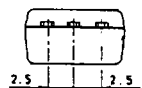
PD=1.5W(PCP:Package):Mounted on ceramic board(250mm×0.8mm). For P Channel (-) sign is omitted.

Type No. ():Marking		Package	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C						
			V _{DSS} (V)	I _D (A)	P _D (W)	y _{fs} typ (S)	C _{iss} typ (PF)	C _{rss} typ (PF)	V _{GS(off)} 10V, 1mA min(V)max	R _{DS(on)} : V _{GS} =10V typ (Ω) max		
P channel / N channel												
2S1284(AM)	2SK1847(KJ)	CP	30	0.3/0.5	0.25	0.35/0.7	50	10	1	1.5/0.5	2.2/0.75	
2S1285(BM)	2SK1848(LJ)		60	0.25/0.4	0.25	0.35/0.6	45	5	1	2.2/0.9	3.0/1.2	
2S1286(CM)	2SK1849(MJ)		100	0.15/0.25	0.25	0.27/0.5	45	3	1	5.5/2.7	7.5/3.5	
—	2SK1311(KB)	PCP	60	-2	※3.5	-1/1.7	-1/160	-12	0.8	-7/0.35	-7/0.45	
2S1187(JA)	2SK1467(KC)		30	1/2		1/2	170	20/30	1	0.5/0.2	0.75/0.3	
2S1190(JB)	2SK1470(KD)		60	1/2		1/2	160/150	10/12	1	0.9/0.35	1.2/0.45	
2S1193(JC)	2SK1473(KE)		100	1/2		1/2	160/150	6	1	1.8/0.7	2.4/0.95	
2S1287(JD)	2SK1724(KF)		30	0.5/1		0.4/1	50	10	1	1.5/0.5	2.2/0.75	
2S1288(JE)	2SK1726(KG)		60	0.5/1		0.4/1	45	5	1	2.2/0.9	3.0/1.2	
2S1289(JF)	2SK1728(KH)		100	0.5/1		0.4/1	45	3	1	5.5/2.7	7.5/3.5	
—	2SK2167(KK)		250	-0.4		-0.4	37	4	1.5	-8	-12	
—	2SK2168(KL)		250	-0.8		-0.9	80	8	1.5	-3/5	-5	
—	2SK2260(KO)	150	-1.2	-1.1	80	8.5	1.5	-1/6	-2.2			
2S1188	2SK1468	TP	30	2/4	※20	2/4	400	110/90	1	0.2/85m	0.3/0.12	
2S1189	2SK1469		30	4/8	※30	4/8	1000	220/180	1	85m/40m	0.12/55m	
2S1191	2SK1471		60	2/4	※30	2/4	380	40/30	1	0.35/0.15	0.45/0.2	
2S1192	2SK1472		60	4/8	※30	4/8	950	75/50	1	0.15/60m	0.2/80m	
2S1194	2SK1474		100	2/4	※20	2/4	380	20/15	1	0.7/0.3	0.95/0.4	
2S1195	2SK1475		100	4/8	※30	4/8	950	40/30	1	0.3/0.12	0.4/0.16	
2S1281	2SK1920		250	3/4	※30	2.5/4	420	40/30	1.5	1.5/0.5	2/0.7	
2S1362	—		60	2/-	※20	2/-	240	40/-	1.5	0.35/-	0.45/-	
—	2SK2046		30	-12	※30	-8	1000	-180	1	-35m	-50m	
—	2SK2199	250	-0.8	※15	-0.9	80	-8	1.5	-3/5	-5		
2S1225	2SK1725	NMP	30	1	1	1	170/50	20/10	1	0.5	0.75	
2S1228	2SK1727		60	0.8	1	0.9	160/45	10/5	1	0.9	1.2	
2S1231	2SK1729		100	0.5	1	0.7	160/45	6/3	1	1.8/2.7	2.4/3.5	
—	2SK1730		30	-1/8	1	-2	-170	-30	1	-0.2	-0.3	
—	2SK1733		60	-1/5	1	-1/8	-150	-12	1	-0.35	-0.45	
—	2SK1736		100	-1	1	-1.5	-150	-6	1	-0.7	-0.95	
—	2SK2169	250	-0.4	1	-0.6	-80	-8	1.5	-3/5	-5		
2S1226	2SK1731	FLP	30	2/3	1.5	2/3.5	400	110/90	1	0.2/0.1	0.3/0.14	
2S1227	2SK1732		30	3/4.5	1.5	3.5/6.5	1000	20/180	1	95m/50m	130m/65m	
2S1229	2SK1734		60	1.6/2.5	1.5	1.8/3.5	380	40/30	1	0.35/0.17	0.45/0.22	
2S1230	2SK1735		60	2.5/4	1.5	3.5/5.5	950	75/50	1	0.16/70m	0.21/90m	
2S1232	2SK1737		100	1.2/1.8	1.5	1.6/2.8	380	20/15	1	0.7/0.3	0.95/0.4	
2S1233	2SK1738		100	1.8/3	1.5	2.8/5.0	950	40/30	1	0.3/0.13	0.4/0.17	

Contains two FETs in the PCP5pin heretofore in use.

Marking: Numeral for Type No.

FP401 Related(Chips use) (2SK2167X2)	PCP5	250	0.4	*2	0.4	37	4	1.5	2.5	8	12
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Precaution: Take care to prevent device breakage from static electricity because MOS FETs cannot withstand much static electricity.

These specifications are subject to change without notice.

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