

Large-signal Power MOSFETs (4)

The Sanyo J-MOS series utilizes Sanyo's own fine fabrication process for power devices to develop an entire series of ultrahigh performance power devices capable of high voltage, high speed and large current operation.

With performance of wide applications for virtually any types of power electronic equipment, the UH Series, AP Series and LD Series offer the most suitable devices to meet specific needs.

In addition to the below SANYO has a wide variety of package of small-signal power MOSFET series. See the tables on other pages.

dc AP Series (Advanced Performance)

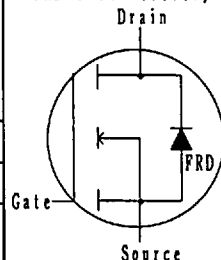
The AP Series provides an on-state resistance approximately 40% lower than the existing J-MOS series. A precisely controlled, channel forming process is used to achieve a threshold value variation width of 0.5V resulting in easy parallel connection operation essential for large current circuits. (VGS±30V guaranteed in VDSS 450V series.) Designed as a power MOSFET with well-balanced characteristics, the AP Series provides the ultimate in high-power performance. The surface mounting TP, SMP and ZP package enables higher density assembly and higher reliability.

Applications * Battery charger, Ac adapter, motor control, inverter lighting, switching power supply, AV equipment etc.

VDSS 400V system

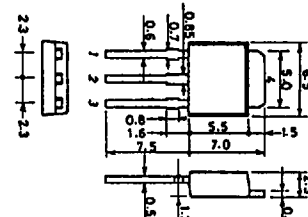
Type No.	Package	Absolute Maximum Ratings /Ta=25℃					Electrical Characteristics/Ta=25℃				Type No.
		V _{DSS} (V)	V _{GSS} (V)	I _D (A)	I _{DP} (A)	P _D Tc=25℃ (W)	V _{GS} (off) min ~ max (V)	R _{DS(on)} V _{GS} =10V V _{GS} =15V (Ω) typ. max	Ciss typ (pF)	*:FRD built in	
2SJ522*	SMP	400	±30	5	20	70	2~3	1.5/2	1500	2SJ522*	
2SK3092	TP			3	12	30	3~4	1.8/2.3	360	2SK3092	
2SK3093	TO-220CI			3	12	20	3~4	1.8/2.3	360	2SK3093	
2SK3095				5	20	25		0.92/1.2	660	2SK3095	
2SK3097		6.5	26	30	0.68/0.87	860		2SK3097			
2SK3099		9	36	35	0.43/0.55	1150		2SK3099			
2SK3101				11	44	40		0.32/0.4	1850	2SK3101	
2SK3094	TO-220			5.5	22	55	3~4	0.92/1.2	660	2SK3094	
2SK3096				7	28	70		0.68/0.87	860	2SK3096	
2SK3098				12	48	85		0.43/0.55	1150	2SK3098	
2SK3100				16	64	90		0.32/0.4	1850	2SK3100	

*FRD: Fast recovery diode

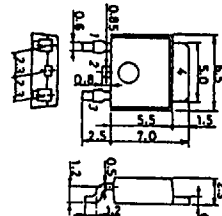


Case Outlines(unit:mm)
SANYO:TP

1:Gate, 2, 4:Drain, 3:Source

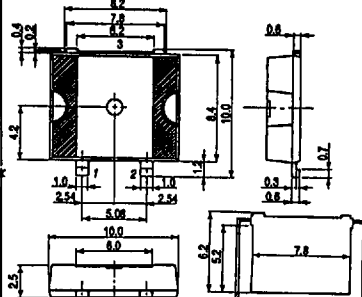


SANYO: T P-FA (Forming type)



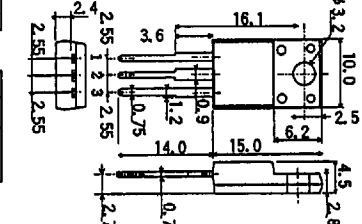
SANYO: Z P

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



SANYO:TO-220CI

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



VDSS 450V system

2SJ457*	T P	450	±30	0.5	2	30	2~3	11/15	300	2SJ457*	
2SK2406*				1	4	30		3.5/4.5	300	2SK2406*	
2SK2434	Z P			5	20	40		1/1.4	700	2SK2434	
2SJ458* 2SJ459*	S M P			2 4	8 16	60 70		4/5.5 2/2.8	700 1500	2SJ458* 2SJ459*	
2SK1690 2SK1691 2SK2403* 2SK2404* 2SK2405*				3 5 3 5 10	12 20 12 20 40	50 60 50 60 70		2/2.6 1/1.4 2.4/3.2 1.2/1.6 0.55/0.75	400 700 380 700 1500	2SK1690 2SK1691 2SK2403* 2SK2404* 2SK2405*	
2SK1438 2SK1439 2SK1440 2SK1441 2SK1442 2SK2407*				TO-220	0.3 3 5 8 12 10	1.2 12 20 32 48 40		20 50 60 70 70 70	9/12 2/2.6 1/1.4 0.6/0.8 0.47/0.6 0.55/0.75	90 400 700 1200 1600 1500	2SK1438 2SK1439 2SK1440 2SK1441 2SK1442 2SK2407*
2SK1443LS 2SK1444LS 2SK1445LS 2SK1446LS 2SK1447LS 2SK2787LS*				TO-220FI (LS)	1 3 5 7 9 8	4 12 20 28 36 32		20 25 30 35 40 40	3.5/4.5 2/2.6 1/1.4 0.6/0.8 0.47/0.6 0.55/0.75	250 400 700 1200 1600 1500	2SK1443LS 2SK1444LS 2SK1445LS 2SK1446LS 2SK1447LS 2SK2787LS*
2SK1448 2SK1449 2SK1450				TO-3PB	8 12 20	32 48 80		100 120 150	0.6/0.8 0.47/0.6 0.24/0.3	1200 1600 3200	2SK1448 2SK1449 2SK1450
2SK1451 2SK1452 2SK1453	TO-3PML			8 10 16	32 40 64	50 60 70		0.6/0.8 0.47/0.6 0.24/0.3	1200 1600 3200	2SK1451 2SK1452 2SK1453	
2SK1454	TO-3PBL			30	120	250		0.12/0.16	6400	2SK1454*	

VDSS 500V system (H-III Series)

2SK2616	T P	500	±30	2	8	30	3.5~5.5	★3/4	300	2SK2616
2SK2619	S M P			6	24	70		★0.95/1.25	700	2SK2619
2SK2617LS	TO-220FI (LS)			4	16	25		★1.2/1.6	550	2SK2617LS
2SK2618LS				5	20	30		★0.95/1.25	700	2SK2618LS

Underlined type Nos. are before mass production.

Precaution

⑦ Take care to prevent device breakage from static electricity because MOSFETs cannot withstand much static electricity.

These specifications are subject to change without notice.

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