

POWER MOSFET

1. Can be used with automatic placement machine.

Available in various packages with taping for automatic placement.

2. MOSFETs operating from 4 volts

These MOSFETs can be directly driven by an IC, saving counts of components (buffer transistors)

3. Low on-resistance

Optimized pattern design for low on-resistance.

2SK2262 (ROHM : 60V, 2A) $R_{DS(ON)} : 0.35\Omega$ (Max.)

Old MOSFETs of the same type (60V, 2A) $R_{DS(ON)} : 0.4 \sim 0.65\Omega$ (Max.)

4. High-speed switching

New process decreases input capacitance (ciss) which increases switching speed.

2SK1976 (ROHM : 450V, 5A) $t_{on} : 25ns$ (Typ.) , $t_{off} : 85ns$ (Typ.)

Old MOSFETs of the same type (450V, 5A) $t_{on} : 30ns$ (Typ.) , $t_{off} : 90ns$ (Typ.)

5. Availability

Approx, 2 millions per month.

Quick reference

V_{DS} (V)	30	60	100	200	250	450	500	600	800	900
I_D (A)										
2		2SK2094 (CPT) 2SK2262 (MRT)	2SK2105 (CPT)							
3	2SK2429 (MRT) 2SK2430 (CPT)	2SK2306 (CPT)							2SK2294 (TO-220FP)	2SK2293 (TO-220FP)
4								2SK2295 (TO-220FP)		
5		2SK2104 (CPT) 2SK2106 (TO-220FP) 2SK2302 (HRT)		2SK2459 (TO-220FP)	2SK2460 (TO-220FP)	2SK1976 (TO-220FP) 2SK2263 (TO-247)	2SK2176 (TO-220FP)			
7						2SK2299 (TO-220FP)	2SK2298 (TO-220FP)			
10	2SK2427 (TO-220FP)	2SK2095 (TO-220FP) 2SK2304 (TO-220FP)	2SK2428 (TO-220FP) 2SK2303 (TO-220FP)			2SK1975 (TO-247)				
15		2SK2300 (TO-220FP)								

CPT · MRT · HRT · TO-220FP · TO-247

Application	Package					V _{DSS}	I _D (A)	P _D (W)		R _{DS} (ON) Typ. (Ω)		
	CPT	MRT	HRT	TO-220FP	TO-247			MRT HRT	CPT TO-220FP TO-247		V _{GS} (V)	I _D (A)
	Part No.							(Ta=25℃)	(Tc=25℃)			
Switching	2SK2430	2SK2429	—	—	—	30	3	1.2	20	0.125	10	1.5
	—	—	—	2SK2427	—	30	10	—	30	0.052	10	5
	2SK2094	2SK2262	—	—	—	60	2	1.2	20	0.30	10	1
	2SK2306	—	—	—	—	60	3	—	20	0.15	10	1.5
	2SK2104	—	2SK2302	2SK2106	—	60	5	1.8	CPT 20 TO-220FP 30	0.115	10	2.5
	—	—	—	2SK2095	—	60	10	—	30	0.080	10	5
	—	—	—	2SK2304	—	60	10	—	30	0.085	10	5
	—	—	—	2SK2300	—	60	15	—	30	0.045	10	7.5
	2SK2105	—	—	—	—	100	2	—	20	0.30	10	1
	—	—	—	2SK2428	—	100	10	—	30	0.16	10	5
	—	—	—	2SK2303	—	100	10	—	30	0.080	10	5
	—	—	—	2SK2459	—	200	5	—	30	0.45	10	2.5
	—	—	—	2SK2460	—	250	5	—	30	0.55	10	2.5
	—	—	—	2SK1976	2SK2263	450	5	—	TO-220FP 30 TO-247	1.0	10	2.5
	—	—	—	2SK2299	—	450	7	—	30	0.9	10	4
	—	—	—	—	2SK1975	450	10	—	80	0.6	10	5
	—	—	—	2SK2176	—	500	5	—	30	1.1	10	2.5
	—	—	—	2SK2298	—	500	7	—	30	1.0	10	4
	—	—	—	2SK2295	—	600	4	—	30	1.8	10	2
	—	—	—	2SK2294	—	800	3	—	30	3.0	10	1.5
	—	—	—	2SK2293	—	900	3	—	30	4.0	10	1.5

Note : ☆Under development

●Product Designation

- When ordering, specify the type.
- Check each code against the tables shown below.
- Fill a space with the next character.

2	S	K	2	1	0	4						
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Part No.

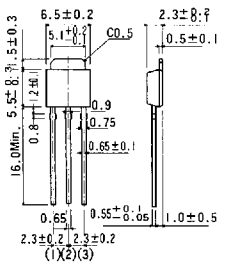
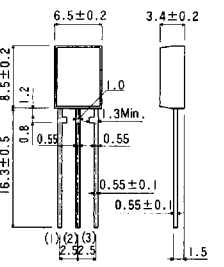
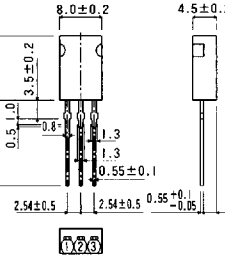
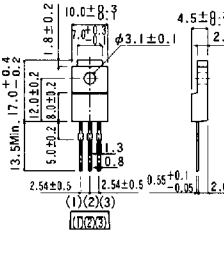
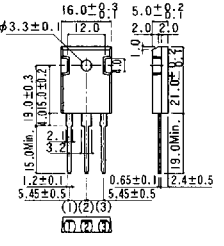
Special code

- Omit for standard product.
- Factory assigned for custom product.

Packaging

Package	Code	Packaging specifications	Quantity/Package (pcs)
CPT	None	Bulk	1,000
MRT	T105	Ammo box	2,000
HRT	T114	Ammo box	1,000
TO-220FP	None	Bulk	500
	C7	Tube	1,000 (50pcs × 20)
TO-247	None	Bulk	200
	F31	Packed in forming tray	500

(Unit : mm)

CPT  (×0.5)	 (1) Gate (2) Drain (3) Source	MRT  (×0.5)	 (1) Source (2) Drain (3) Gate
HRT  (×0.5)	 (1) Gate (2) Drain (3) Source	TO-220FP  (×0.5)	 (1) Gate (2) Drain (3) Source
		TO-247  (×0.5)	 (1) Gate (2) Drain (3) Source

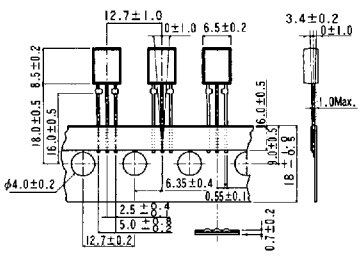
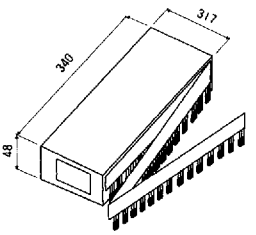
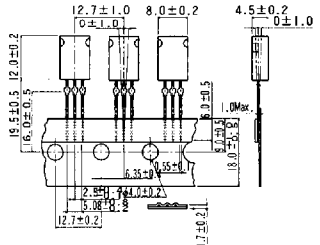
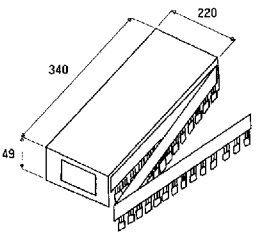
POWER MOSFET Transistors

The Class and Basic ordering Units for Standard and Special Products Units

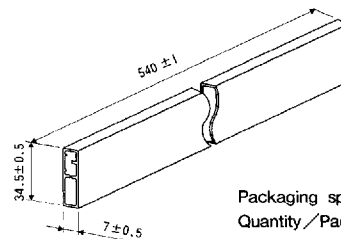
Page 152

●Packaging

(Unit : mm)

MRT Taping 	MRT Ammo box 
HRT Taping 	HRT Ammo box 

TO-220FP Container tube



Packaging specification code : C7
Quantity / Package : 50pcs