

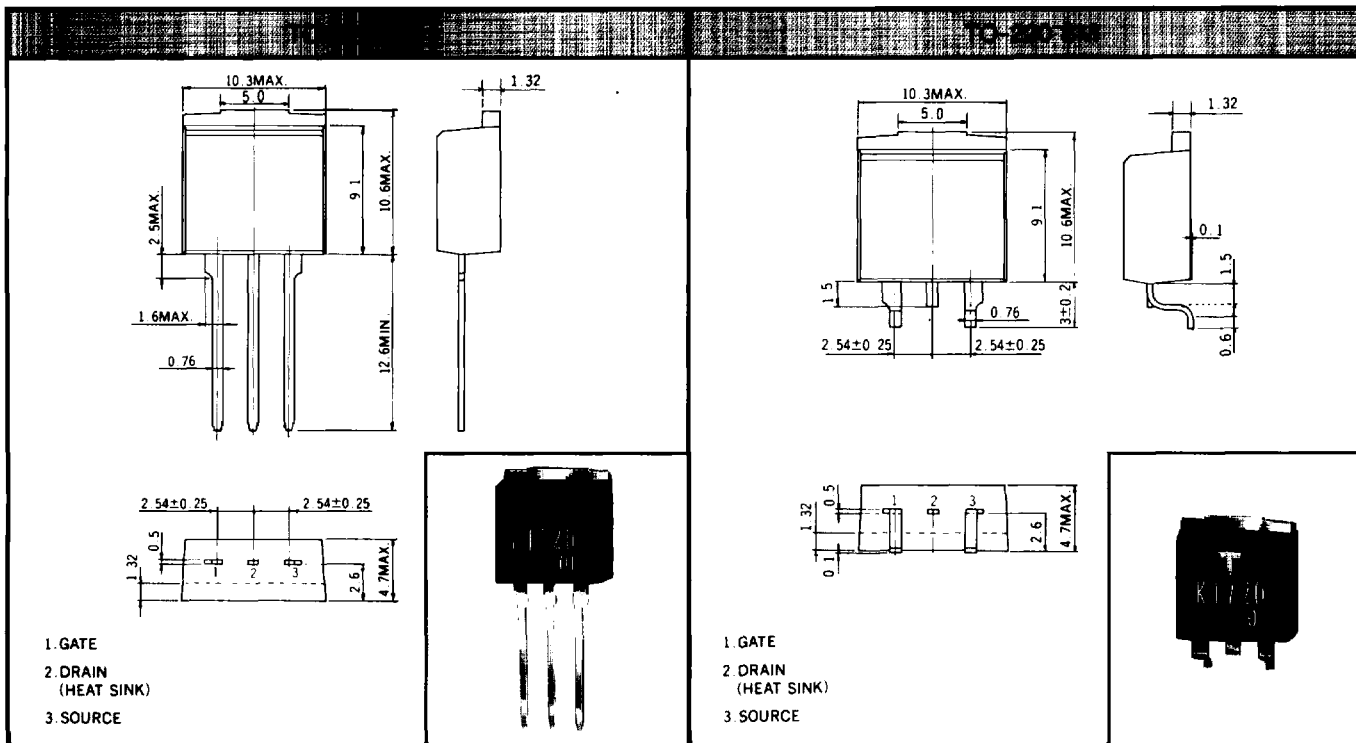
# Power MOS FET Lineup [Characteristics Chart]

## 8. New Product Small Package

### [a] TO-220 FL/SM

For use in a variety of compact, thin, lightweight equipment, the lineup features a new package with TO-220 class ratings and a compact exterior that can be surface-mounted.

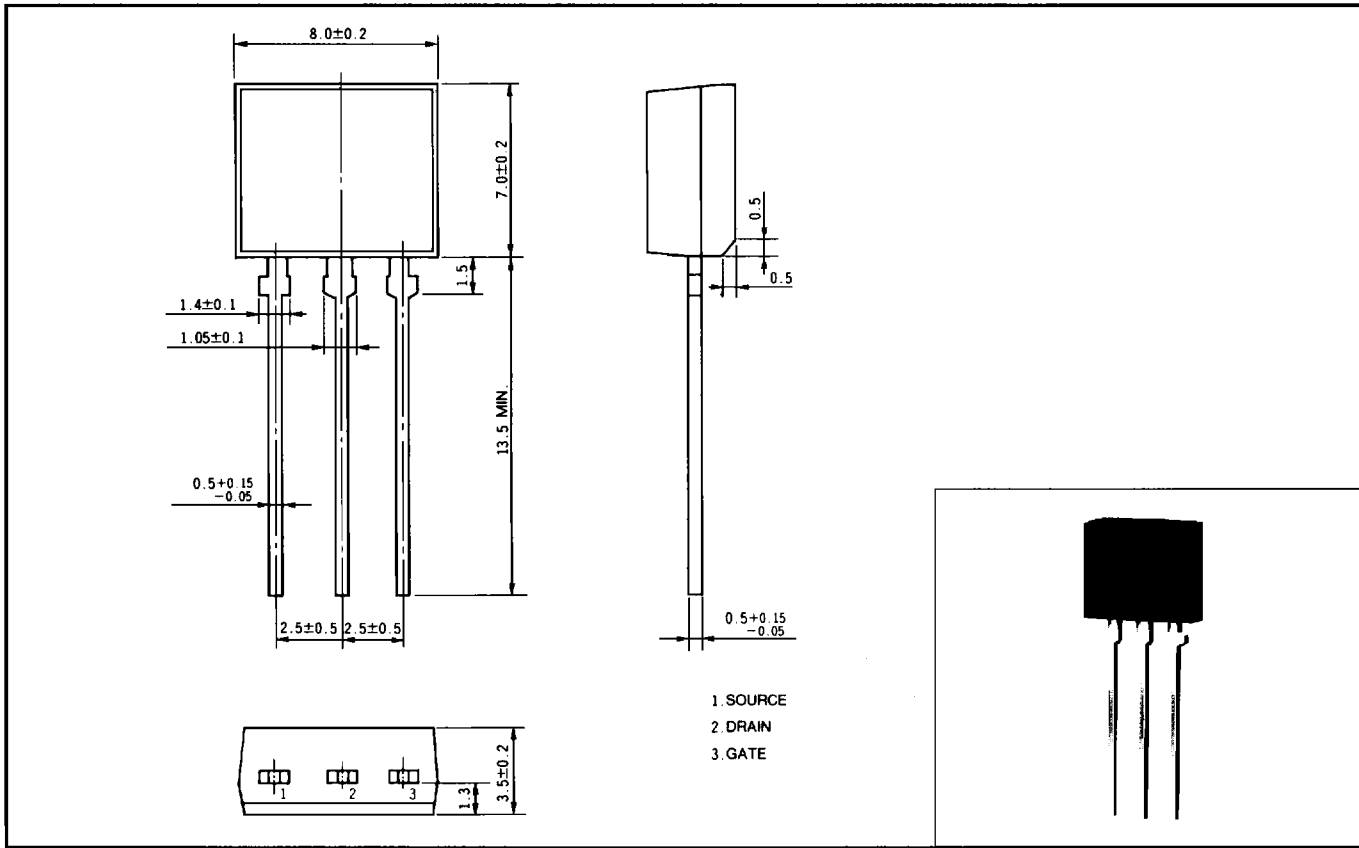
- TO-220 FL ⇒ Height of the package when mounted is less than 13mm. Single unit  $P_D=1.5W$  ( $T_a=25^\circ C$ )
- TO-220 SM ⇒ Possible for surface mounting



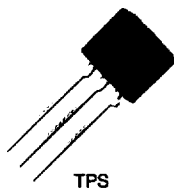
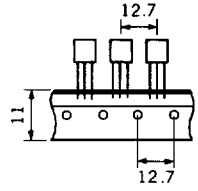

Application	Type No.	Maximum ratings			$R_{DS(ON)}$				$V_{th}(V)$ ( $I_D=1mA$ )	Equivalent
		$I_D$ (A)	$V_{DS}$ (V)	$P_D$ (W)	$\Omega$		$V_{GS}$ (V)	$I_D$ (A)		
					TYP.	MAX.				
DC/DC converter solenoid drive large-current switching	2SJ224	-12	-60	80	0.17	0.2	-10	-6	-1.5~-3.5	2SJ147
	2SJ312	-14	-60	40	0.085	0.13	-10	-7	-0.8~-2.0	2SJ304
	2SJ241	-20	-60	100	0.035	0.045	-10	-10	-0.8~-2.0	2SJ240
	2SK2311	25	60	40	0.036	0.046	10	12	0.8~2.0	2SK2232
	2SK2266	45	60	65	0.022	0.030	10	25	0.8~2.0	2SK2233
	2SK1720	45	60	100	0.024	0.03	10	25	1.5~3.5	2SK856
	2SK1792	45	60	100	0.015	0.020	10	20	0.8~2.0	2SK1542
	2SK1927	15	100	60	0.14	0.18	10	8	1.5~3.5	2SK888
	2SK1928	27	100	100	0.07	0.085	10	15	1.5~3.5	2SK889
	2SK2088	10	200	60	0.25	0.40	10	5	1.5~3.5	2SK890
AC115V input switching power supply	2SK2107	18	200	100	0.14	0.18	10	10	1.5~3.5	2SK891
	2SK1721	3	500	40	2.5	3.0	10	1.0	1.5~3.5	2SK892
	2SK1722	5	500	60	1.3	1.5	10	2.5	1.5~3.5	2SK893
	2SK1864	8	500	100	0.78	0.85	10	5.0	2.0~4.0	2SK1574
	2SK1865	12	500	100	0.50	0.70	10	6.0	1.5~3.5	2SK1855
	2SK1746	2	600	40	2.9	4.0	10	1.0	2.0~4.0	2SK858
AC220/240V input Switching power supply	2SK1915	6	600	100	0.95	1.25	10	3	1.5~3.5	2SK1117
	2SK1858	3	800	60	4.3	5.0	10	1.5	1.5~3.5	2SK1600
	2SK2089	5	800	100	1.8	2.4	10	3	1.5~3.5	2SK2056
	2SK1929	5	900	100	2.5	2.8	10	2	1.5~3.5	2SK1643
	2SK1930	4	1000	100	3.0	3.8	10	2	1.5~3.5	2SK1119

[ b ] TPS

Line-up of greater allowable dissipation power MOS FETs in new packages. Radial tapping capability most suitable for automatic insertion. ( $P_D=1.2W$  @ $T_a=25^\circ C$ )



■ Taping Specifications

Package format	Taping specification display	Applicable package type	Packing		Packing unit
			Dimensions (Unit: mm)	Outline	
Ammo type	TP	 TPS			2000pcs /carton

Application	Type No.	Maximum ratings			$R_{DS(ON)}$				$V_{th}(V)$ ( $I_D=1mA$ )	Equivalent
		$I_D$ (A)	$V_{DS}$ (V)	$P_D$ (W)	$(\Omega)$		$V_{GS}$ (V)	$I_D$ (A)		
					TYP.	MAX.				
DC/DC converter Solenoid drive current switching	* 2SJ359	-5	-60	1.2	0.21	0.25	-10	-2.5	-0.8~-2.0	2SJ239
	* 2SJ378	-5	-60	1.2	0.16	0.19	-10	-2.5	-0.8~-2.0	2SJ377
	* 2SK2228	5	60	1.2	0.08	0.11	10	2.5	0.8~2.0	2SK1719
	2SK2229	5	60	1.2	0.12	0.16	10	2.5	0.8~2.0	2SK2231
	2SK2200	3	100	1.2	0.28	0.35	10	1.5	0.8~2.0	2SK2201
	* 2SK2230	2	250	1.2	1.2	2.0	10	1	2.0~4.0	2SK2146

\* : Under development