

查询"2SK1444"供应商

<b>SANYO</b>	No.3447C	<b>2SK1444</b>
		N-Channel Silicon MOSFET Ultrahigh-Speed Switching Applications

**Features**

- Low ON-state resistance.
- Ultrahigh-speed switching.
- Micaless package facilitating easy mounting.

**Absolute Maximum Ratings at Ta = 25°C**

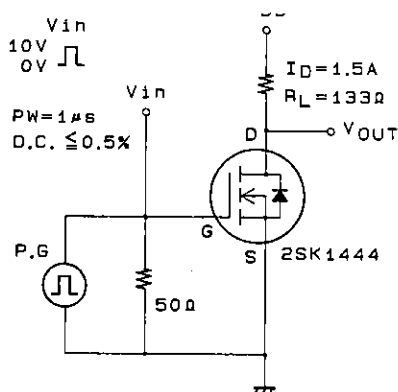
			unit
Drain-to-Source Voltage	V <sub>DSS</sub>	450	V
Gate-to-Source Voltage	V <sub>GSS</sub>	±30	V
Drain Current(DC)	I <sub>D</sub>	3	A
Drain Current(Pulse)	I <sub>DP</sub>	PW ≤ 10μs, duty cycle ≤ 1%	12 A
Allowable Power Dissipation	P <sub>D</sub>	2.0	W
		Tc = 25°C	25 W
Channel Temperature	Tch	150	°C
Storage Temperature	Tstg	-55 to +150	°C

**Electrical Characteristics at Ta = 25°C**

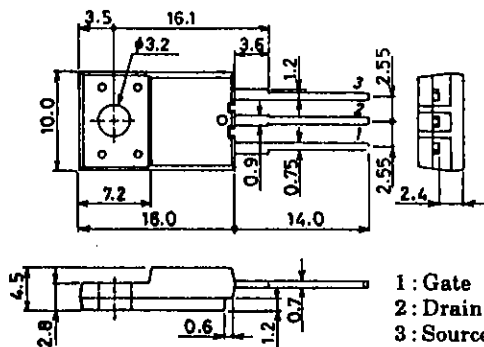
			min	typ	max	unit
D-S Breakdown Voltage	V <sub>(BR)DSS</sub>	I <sub>D</sub> = 1mA, V <sub>GS</sub> = 0	450			V
Zero-Gate Voltage	I <sub>DSS</sub>	V <sub>DS</sub> = 450V, V <sub>GS</sub> = 0			1.0	mA
Drain Current						
Gate-to-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> = ±30V, V <sub>DS</sub> = 0			±100	nA
Cutoff Voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> = 10V, I <sub>D</sub> = 1mA	2.0		3.0	V
Forward Transfer Admittance	Y <sub>fs</sub>	V <sub>DS</sub> = 10V, I <sub>D</sub> = 0.5A	1.1	2.2		S
Static Drain-to-Source ON-State Resistance	R <sub>DS(on)</sub>	I <sub>D</sub> = 0.5A, V <sub>GS</sub> = 10V		2.0	2.6	Ω
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> = 20V, f = 1MHz		400		pF
Output Capacitance	C <sub>oss</sub>	V <sub>DS</sub> = 20V, f = 1MHz		60		pF
Reverse Transfer Capacitance	C <sub>rss</sub>	V <sub>DS</sub> = 20V, f = 1MHz		25		pF
Turn-ON Delay Time	t <sub>d(on)</sub>	See specified Test Circuit.		12		ns
Rise Time	t <sub>r</sub>	"		20		ns
Turn-OFF Delay Time	t <sub>d(off)</sub>	"		80		ns
Fall Time	t <sub>f</sub>	"		35		ns
Diode Forward Voltage	V <sub>SD</sub>	I <sub>S</sub> = 3A, V <sub>GS</sub> = 0			1.8	V

(Note) Be careful in handling the 2SK1444 because it has no protection diode between gate and source.

**Switching Time Test Circuit**

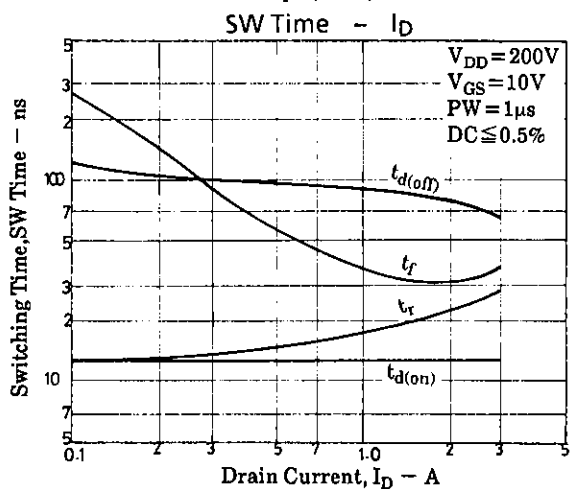
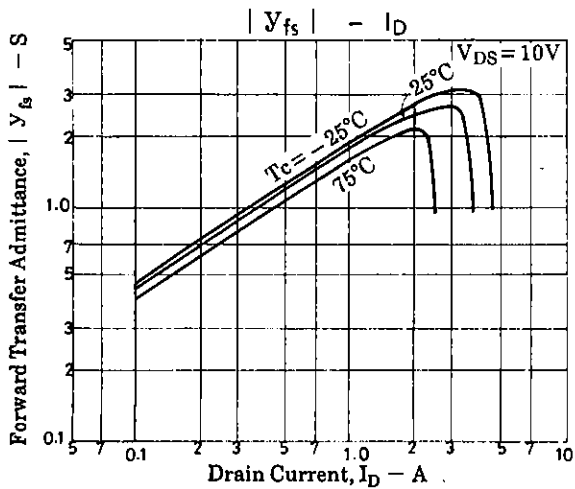
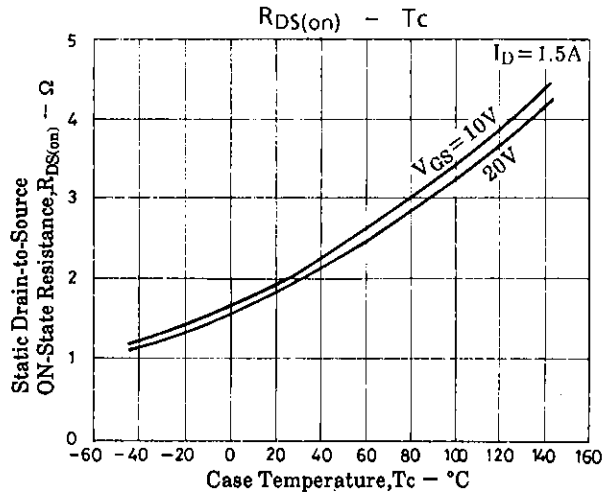
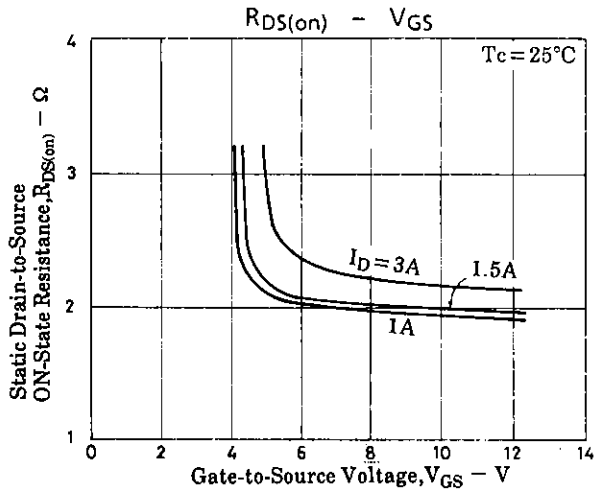
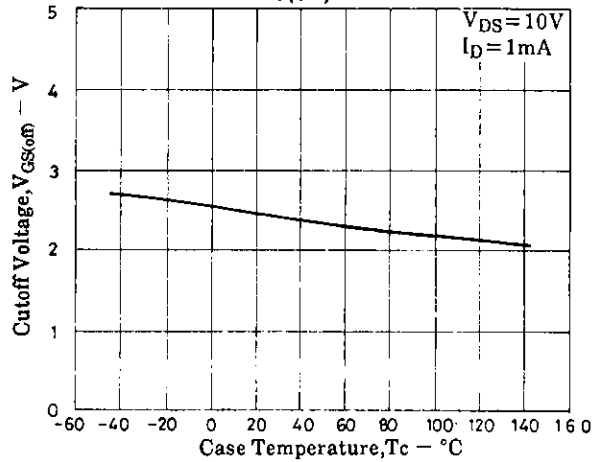
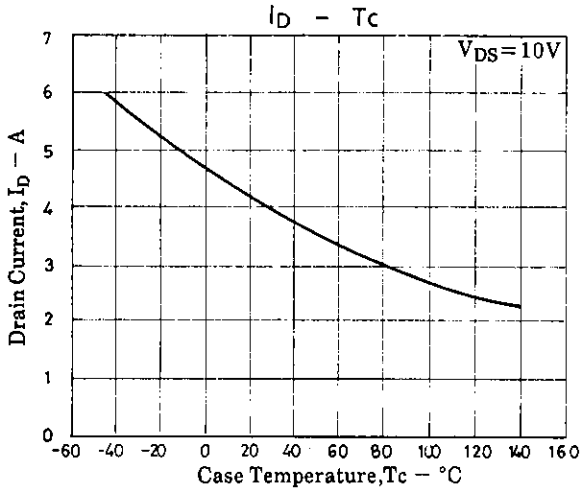
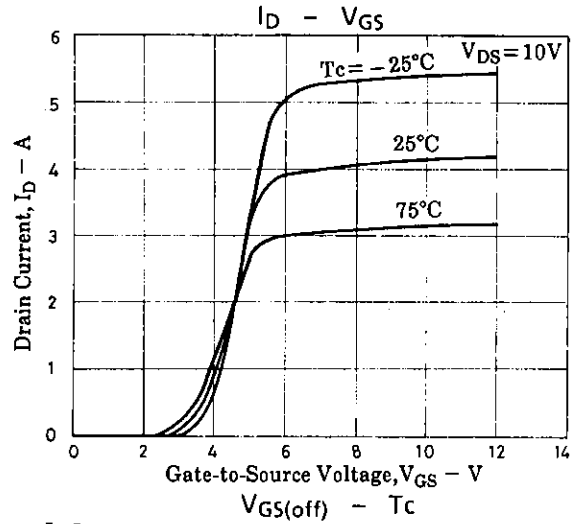
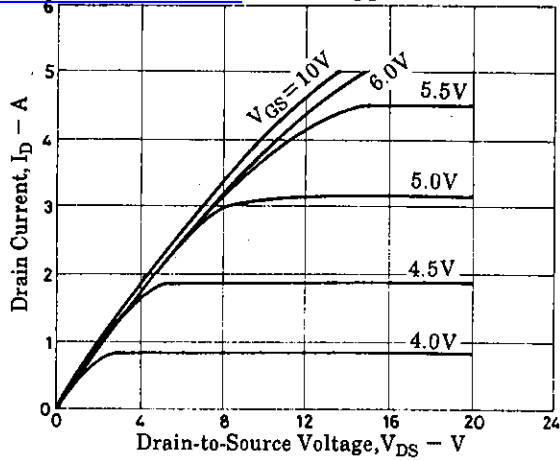


**Package Dimensions 2078B (unit : mm)**

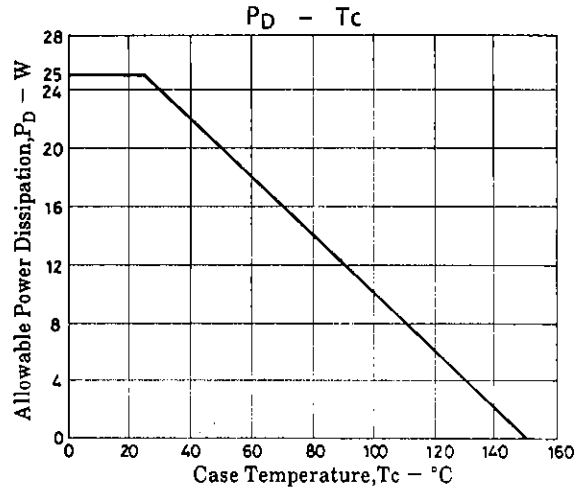
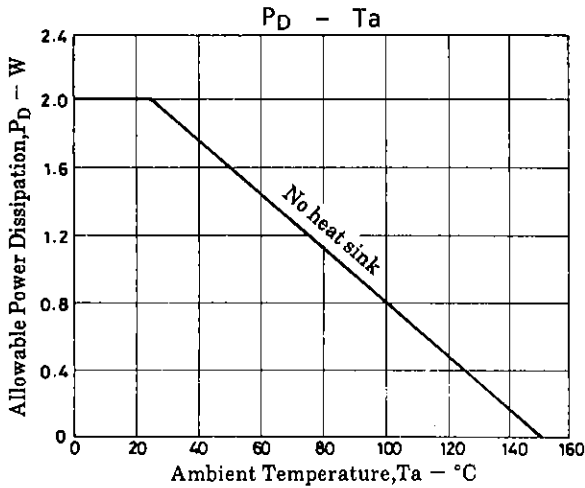
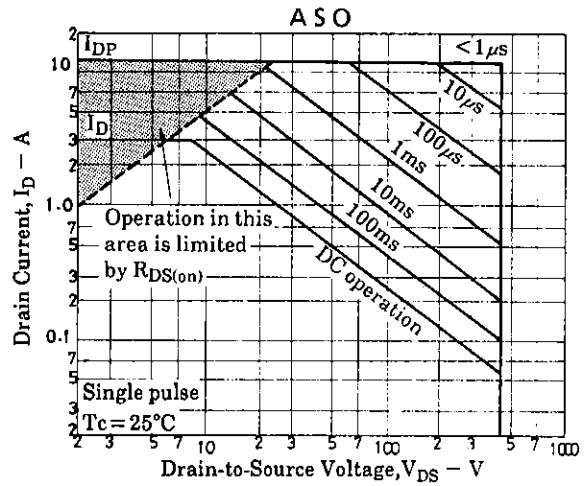
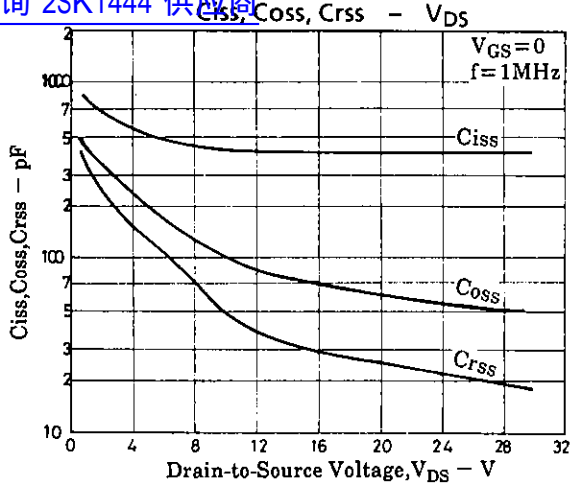


SANYO : TO-220F(LS)

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