

查询"2SK1458"供应商

<b>SANYO</b>	No.3461A	<b>2SK1458</b>
		N-Channel Silicon MOSFET <b>Ultrahigh-Speed Switching Applications</b>

**Features**

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

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

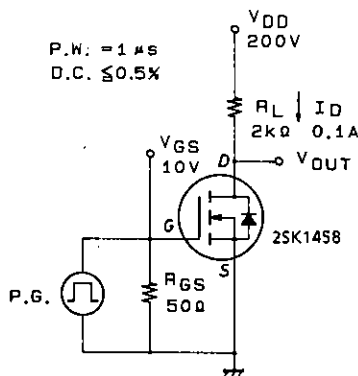
Drain-to-Source Voltage	$V_{DSS}$			unit
Gate-to-Source Voltage	$V_{GSS}$	900		V
Drain Current(DC)	$I_D$	$\pm 30$		V
Drain Current(Pulse)	$I_{DP}$	0.2		A
Allowable Power Dissipation	$P_D$	$PW \leq 10\mu s, \text{ duty cycle} \leq 1\%$		A
		0.4		W
		2.0		W
Channel Temperature	$T_{ch}$	$T_c = 25^\circ C$		°C
Storage Temperature	$T_{stg}$			-55 to +150 °C

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

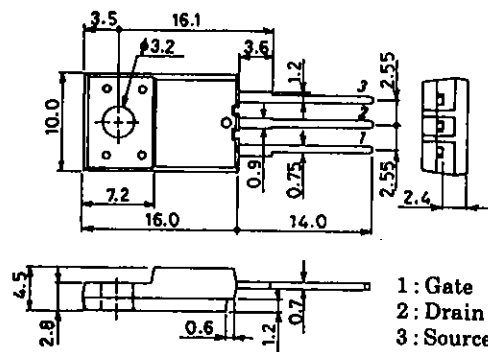
			min	typ	max	unit
D-S Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 1mA, V_{GS} = 0$	900			V
Zero-Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = 900V, V_{GS} = 0$			1.0	mA
Gate-to-Source Leakage Current	$I_{GSS}$	$V_{GS} = \pm 30V, V_{DS} = 0$			$\pm 100$	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 1mA$	2.0		3.0	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 20V, I_D = 0.1A$	0.08	0.15		S
Static Drain-to-Source ON-State Resistance	$R_{DS(on)}$	$I_D = 0.1A, V_{GS} = 10V$		50	70	Ω
Input Capacitance	$C_{iss}$	$V_{DS} = 20V, f = 1MHz$		45		pF
Output Capacitance	$C_{oss}$	$V_{DS} = 20V, f = 1MHz$		25		pF
Reverse Transfer Capacitance	$C_{rss}$	$V_{DS} = 20V, f = 1MHz$		10		pF
Turn-ON Delay Time	$t_{d(on)}$	$I_D = 0.1A, V_{GS} = 10V$ $V_{DD} = 200V, R_{GS} = 50\Omega$		10		ns
Rise Time	$t_r$		15		ns	
Turn-OFF Delay Time	$t_{d(off)}$		30		ns	
Fall Time	$t_f$		180		ns	
Diode Forward Voltage	$V_{SD}$	$I_S = 0.2A, V_{GS} = 0$			1.8	V

(Note) Be careful in handling the 2SK1458 because it has no protection diode between gate and source.

**Switching Time Test Circuit**



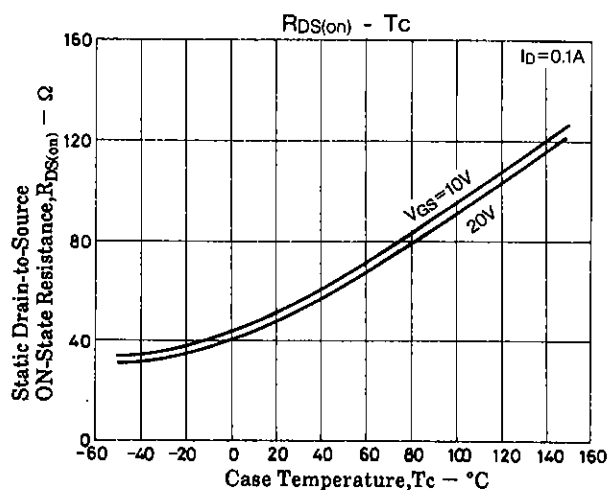
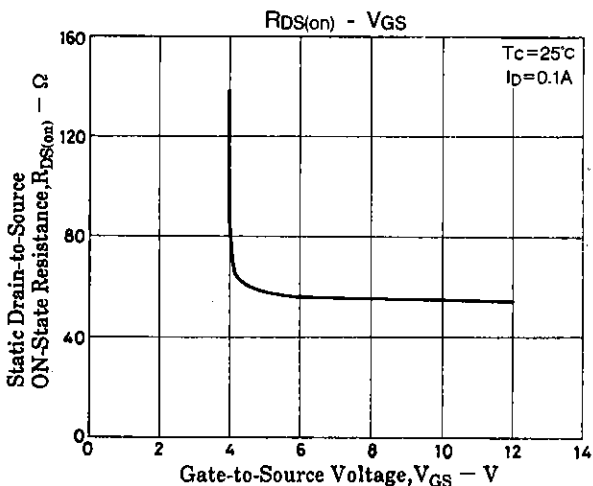
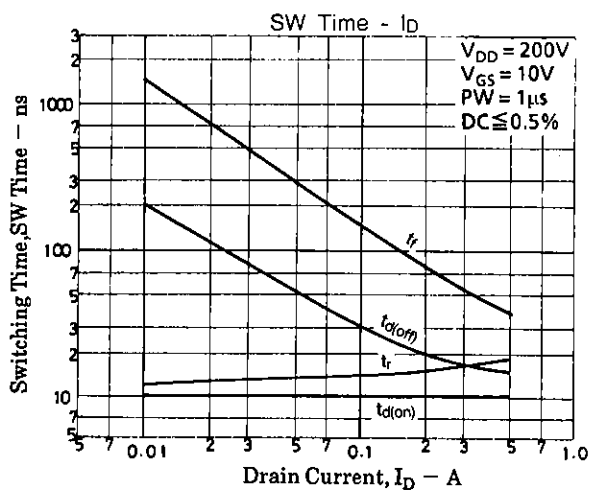
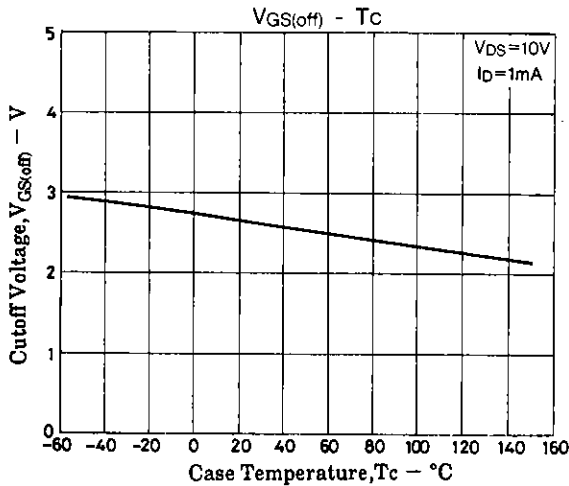
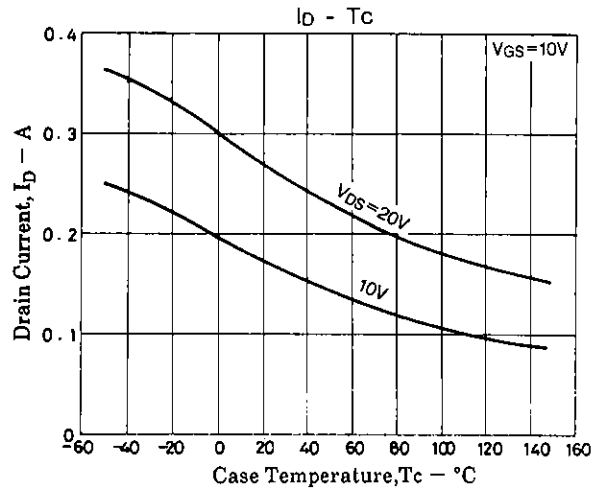
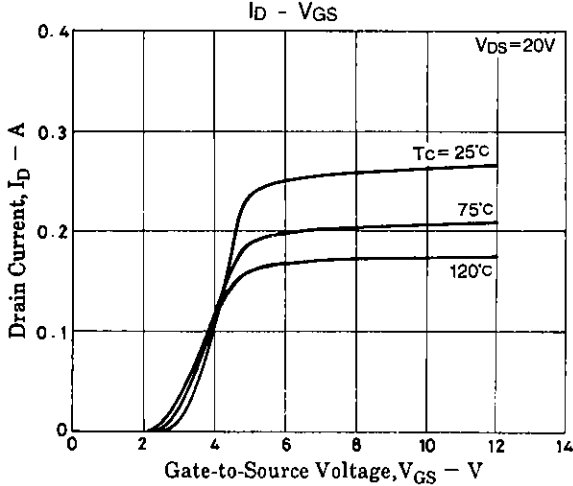
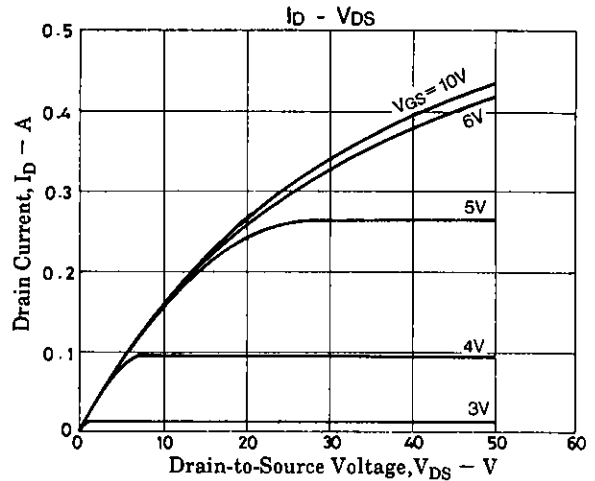
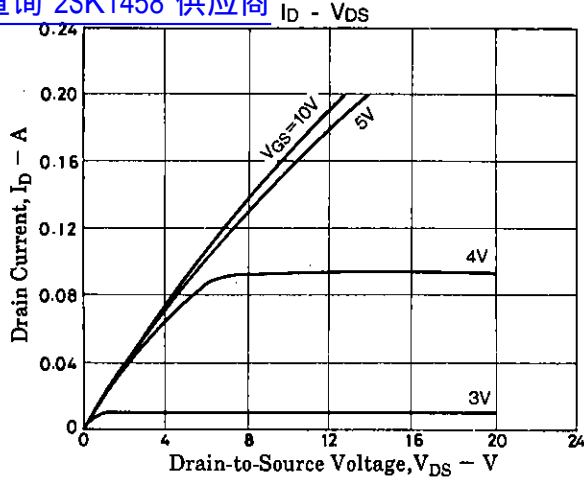
**Package Dimensions 2078B**  
(unit : mm)



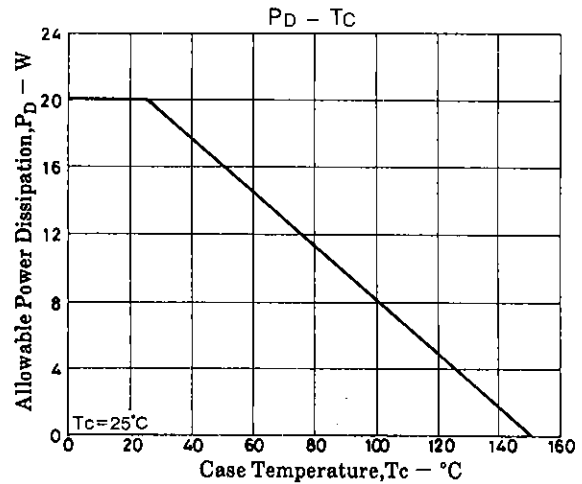
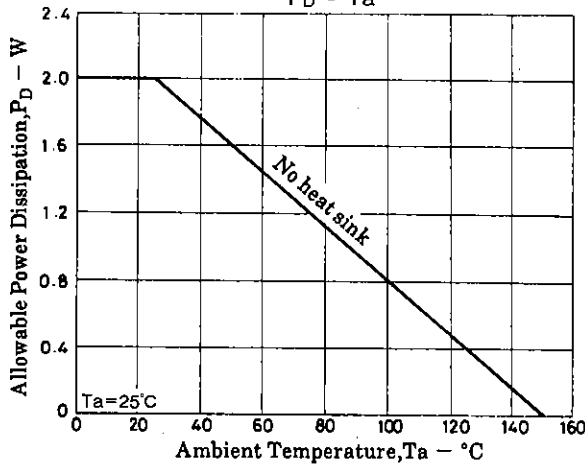
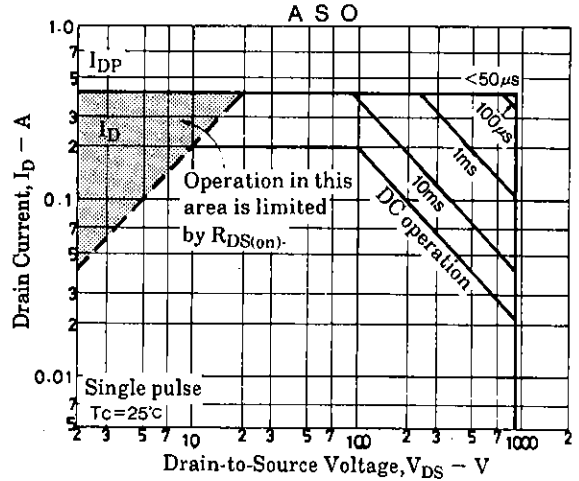
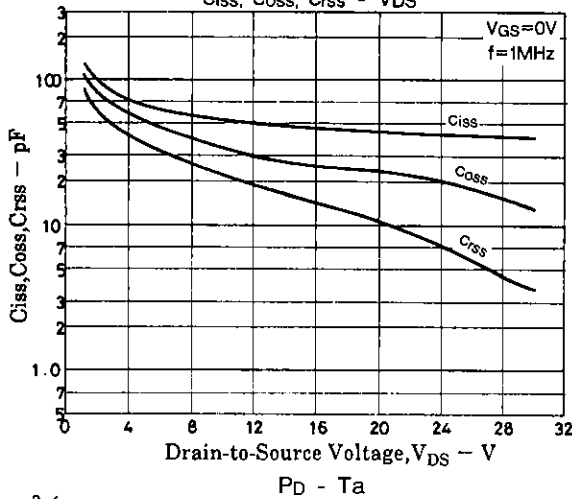
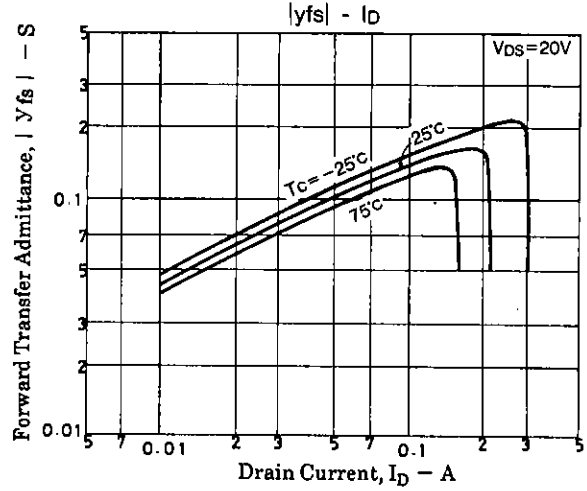
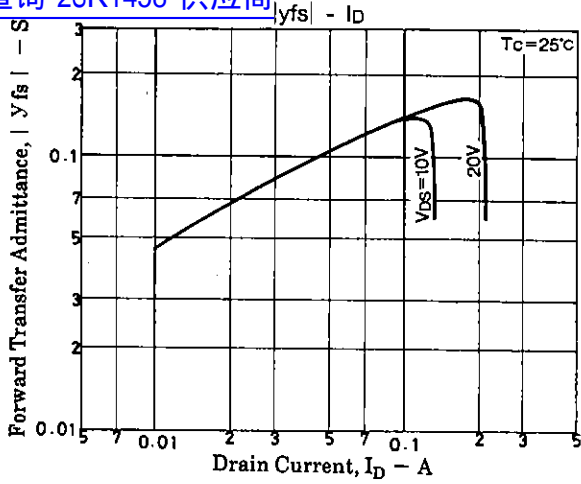
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