

SANYO	No.4748	2SJ273
		P-Channel MOS Silicon FET Very High-Speed Switching Applications

Features

- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.
- Micaless package facilitating easy mounting.

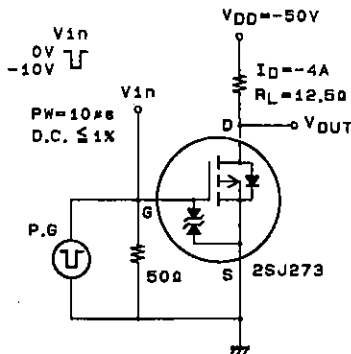
Absolute Maximum Ratings at Ta = 25°C

Drain-to-Source Voltage	V_{DS}		-100	V	unit
Gate-to-Source Voltage	V_{GS}		±20	V	
Drain Current(DC)	I_D		-6	A	
Drain Current(Pulse)	I_{DP}	$PW \leq 10\mu s, \text{ duty cycle} \leq 1\%$	-24	A	
Allowable Power Dissipation	P_D		2.0	W	
		$T_c = 25^\circ C$	25	W	
Channel Temperature	T_{ch}		150	°C	
Storage Temperature	T_{stg}		-55 to +150	°C	

Electrical Characteristics at Ta = 25°C

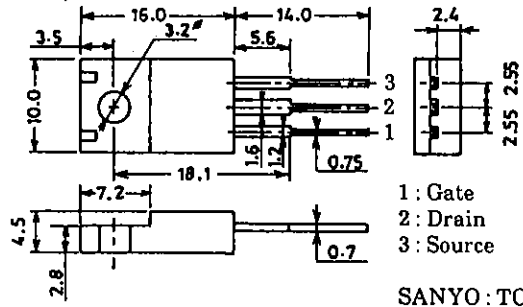
			min	typ	max	unit
D-S Breakdown Voltage	$V_{(BR)DSS}$	$I_D = -1mA, V_{GS} = 0$	-100			V
G-S Breakdown Voltage	$V_{(BR)GSS}$	$I_G = \pm 100\mu A, V_{DS} = 0$	±20			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -100V, V_{GS} = 0$			-100	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = \pm 16V, V_{DS} = 0$			±10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = -10V, I_D = -1mA$	-1.0		-2.0	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = -10V, I_D = -4A$	3.5	6.5		S
Static Drain-to-Source ON-State Resistance	$R_{DS(on)}$	$I_D = -4A, V_{GS} = -10V$		0.22	0.3	Ω
Input Capacitance	C_{iss}	$V_{DS} = -20V, f = 1MHz$		1230		pF
Output Capacitance	C_{oss}	$V_{DS} = -20V, f = 1MHz$		260		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = -20V, f = 1MHz$		50		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		16		ns
Rise Time	t_r	"		27		ns
Turn-OFF Delay Time	$t_{d(off)}$	"		200		ns
Fall Time	t_f	"		100		ns
Diode Forward Voltage	V_{SD}	$I_S = -6A, V_{GS} = 0$	-1.0	-1.5		V

Switching Time Test Circuit

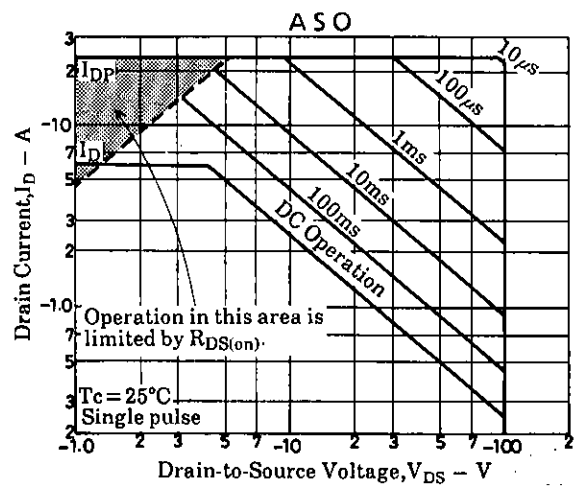
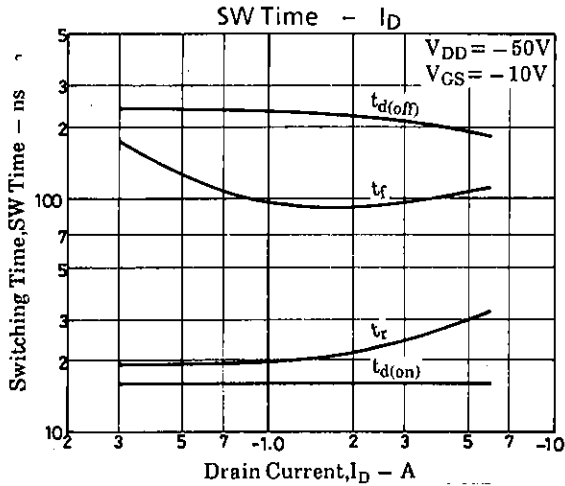
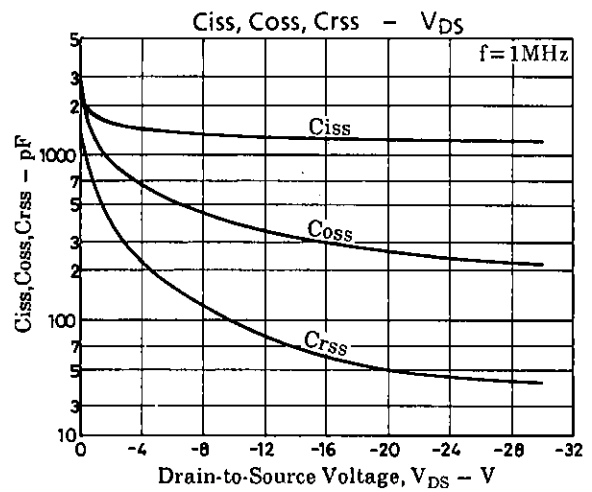
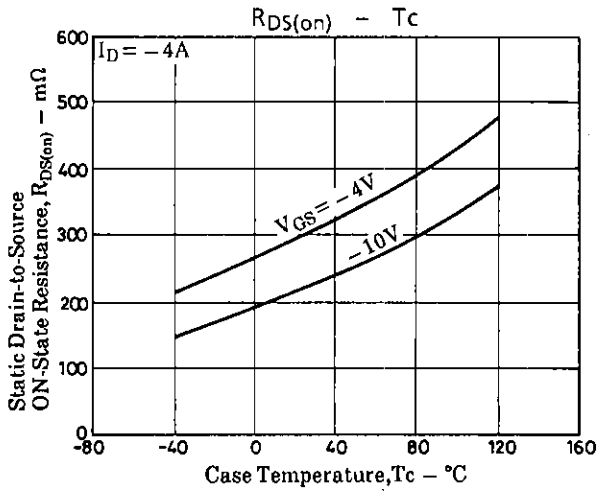
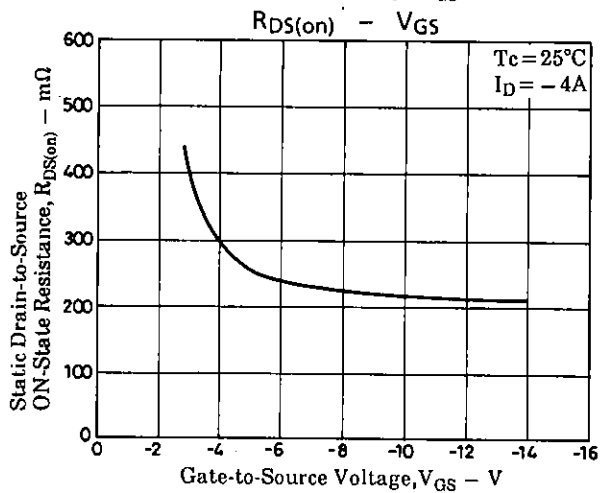
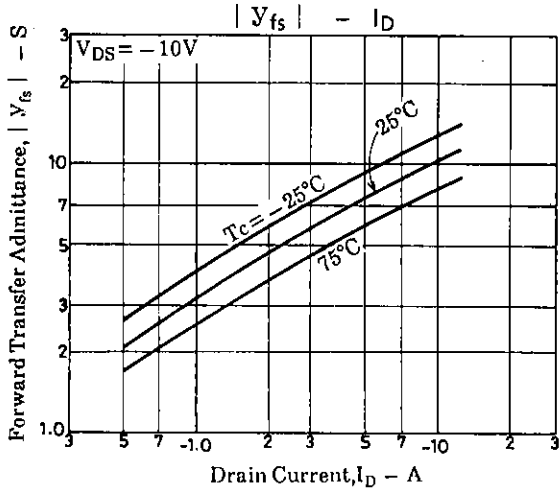
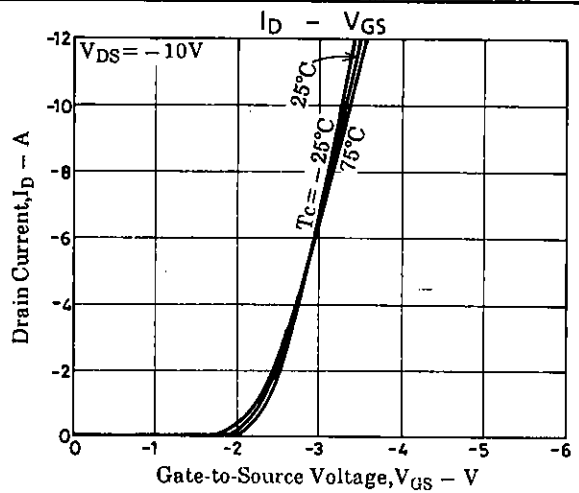
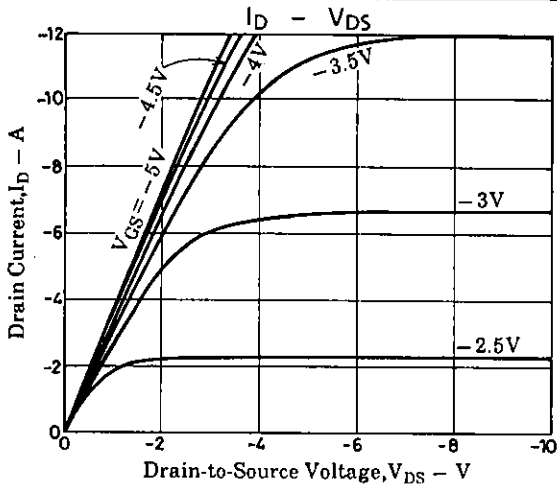


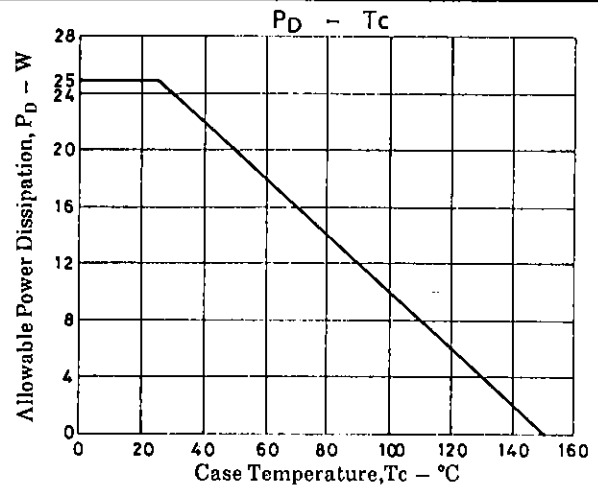
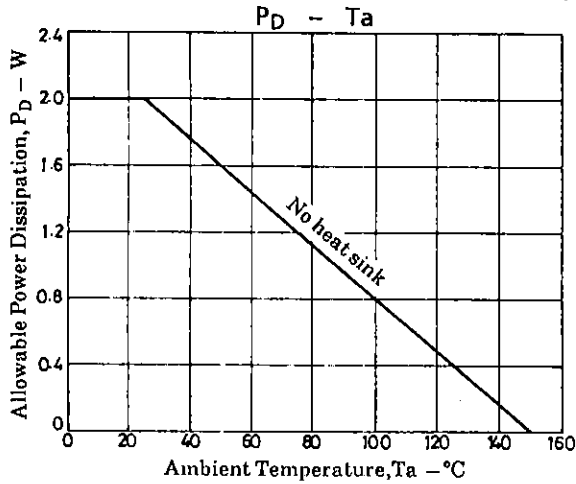
Package Dimensions 2063A

(unit : mm)



SANYO : TO-220ML





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