

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.

جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وبسایت توکل الکترونیک مراجعه فرمایید.

مشاهده قیمت و خرید
برای خرید و مشاهده سایر محصولات کلیک کنید

Ordering number:EN4317A

P-Channel Silicon MOSFET

2SJ307

SANYO

Ultrahigh-Speed Switching Applications

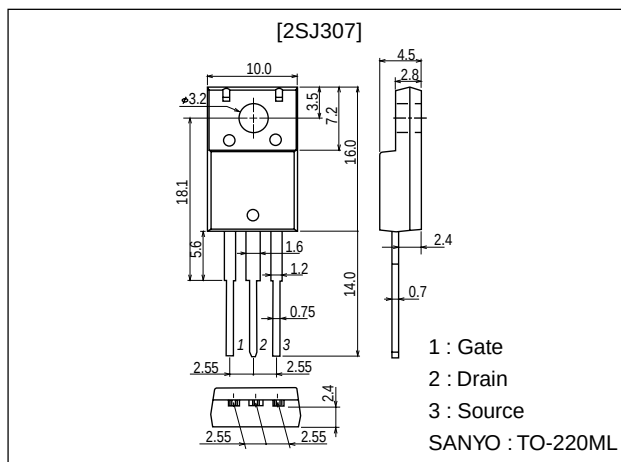
Features

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

Package Dimensions

unit:mm

2063A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DSS}		-250	V
Gate-to-Source Voltage	V_{GSS}		± 30	V
Drain Current (DC)	I_D		-6	A
Drain Current (Pulse)	I_{DP}	$PW \leq 10\mu s$, duty cycle $\leq 1\%$	-24	A
Allowable Power Dissipation	P_D		2.0	W
		$T_c = 25^\circ C$	30	W
Channel Temperature	T_{ch}		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = -1mA$, $V_{GS} = 0$	-250			V
Gate-to-Source Breakdown Voltage	$V_{(BR)GSS}$	$I_G = \pm 100\mu A$, $V_{DS} = 0$	± 30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -250V$, $V_{GS} = 0$			-100	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = \pm 25V$, $V_{DS} = 0$			± 10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = -10V$, $I_D = -1mA$	-1.5		-2.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = -10V$, $I_D = -3A$	3	5		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)}$	$I_D = -3A$, $V_{GS} = -10V$		0.75	1.0	Ω

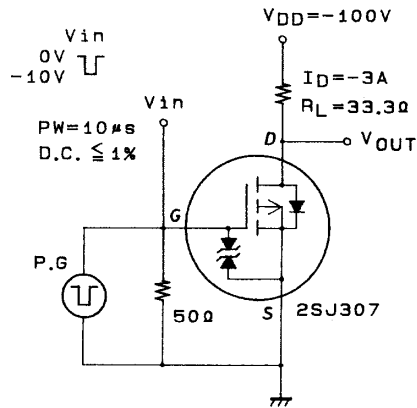
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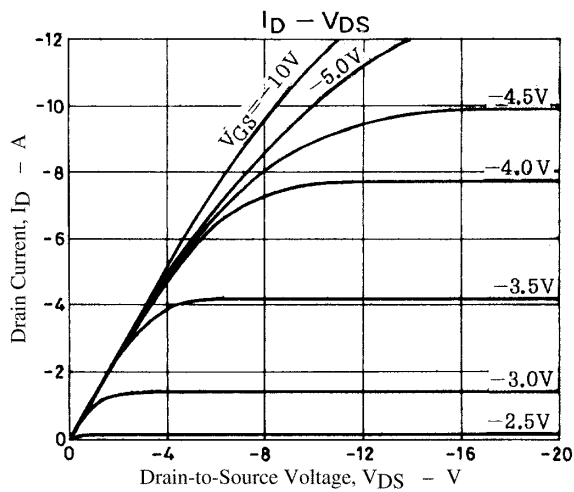
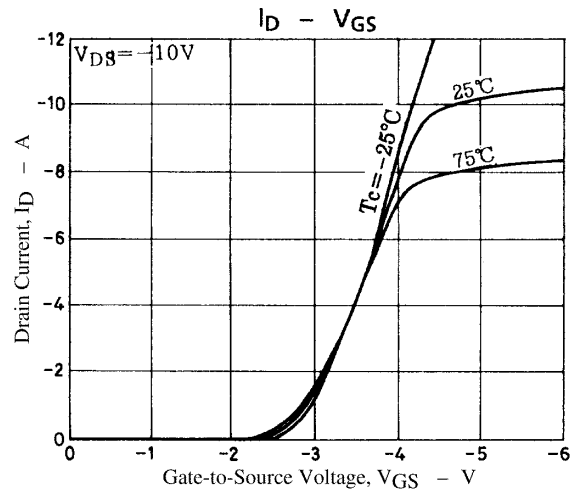
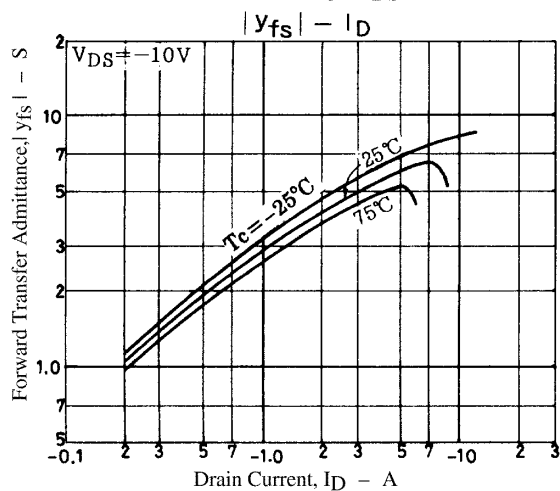
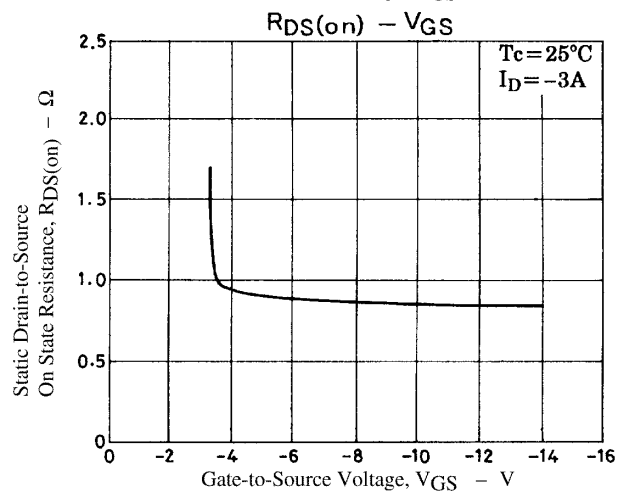
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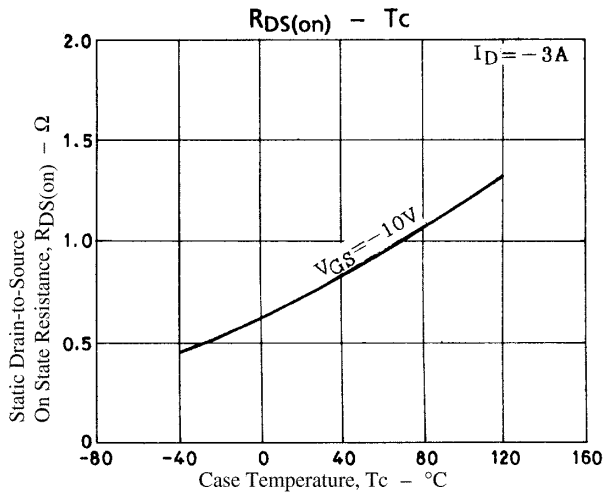
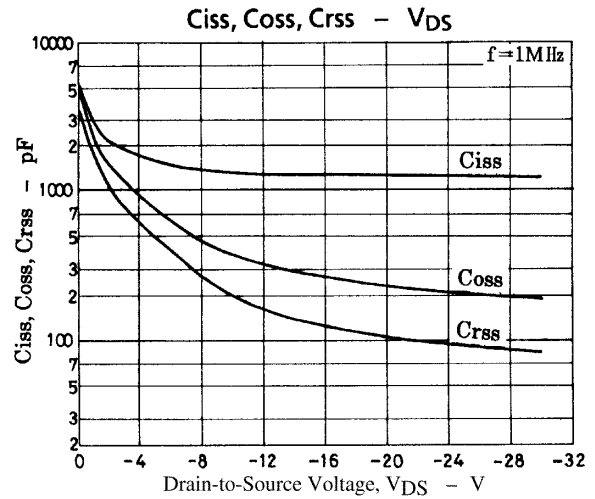
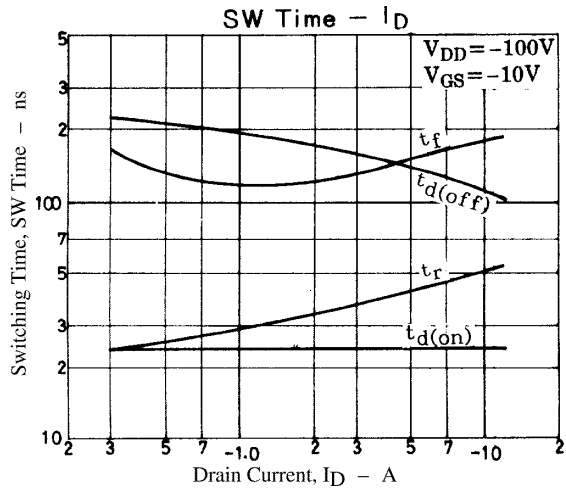
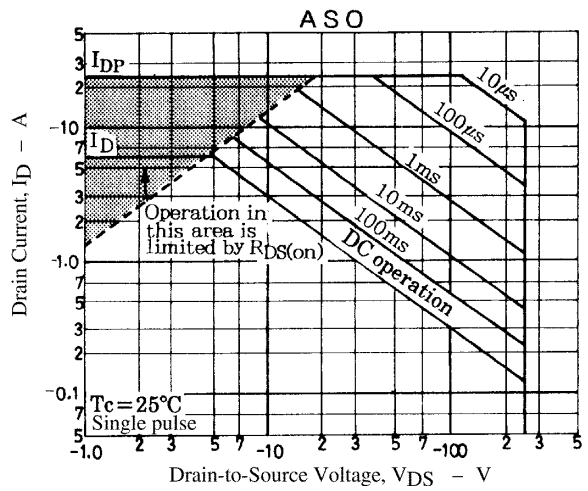
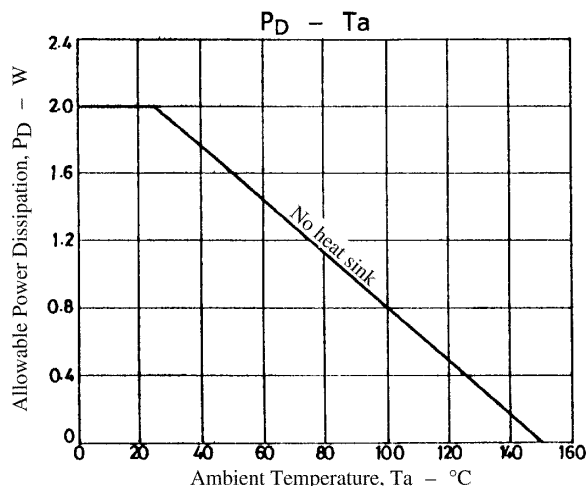
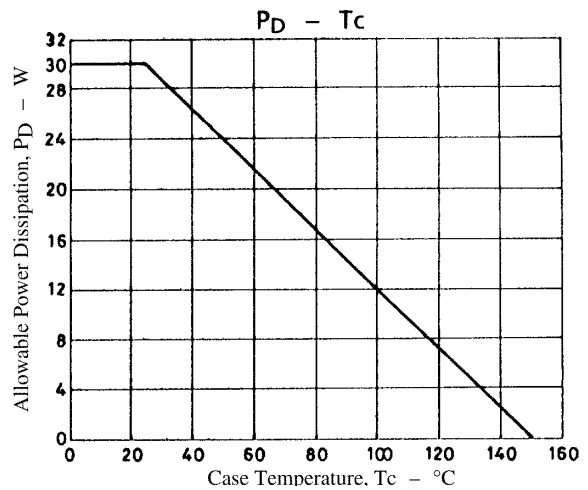
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	C_{iss}	$V_{DS} = -20V, f = 1MHz$		1250		pF
Output Capacitance	C_{oss}	$V_{DS} = -20V, f = 1MHz$		235		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = -20V, f = 1MHz$		105		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit		24		ns
Rise Time	t_r	See specified Test Circuit		37		ns
Turn-OFF Delay Time	$t_{d(off)}$	See specified Test Circuit		155		ns
Fall Time	t_f	See specified Test Circuit		130		ns
Diode Forward Voltage	V_{SD}	$I_S = -6A, V_{GS} = 0$		-1.0	-1.5	V

Switching Time Test Circuit



A01165





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