

SANYO

No.4231

2SJ254

P-Channel MOS Silicon FET

Very High-Speed
Switching Applications**Features**

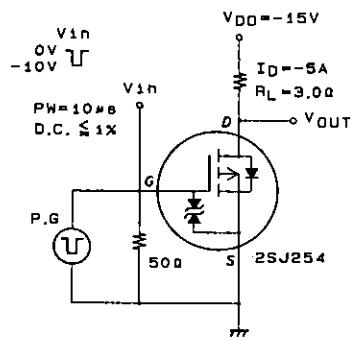
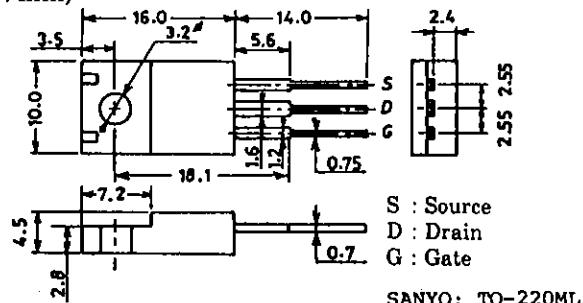
- Low ON resistance.
- Very high-speed switching.
- Low-voltage drive.
- Micaless package facilitating mounting.

Absolute Maximum Ratings at Ta=25°C

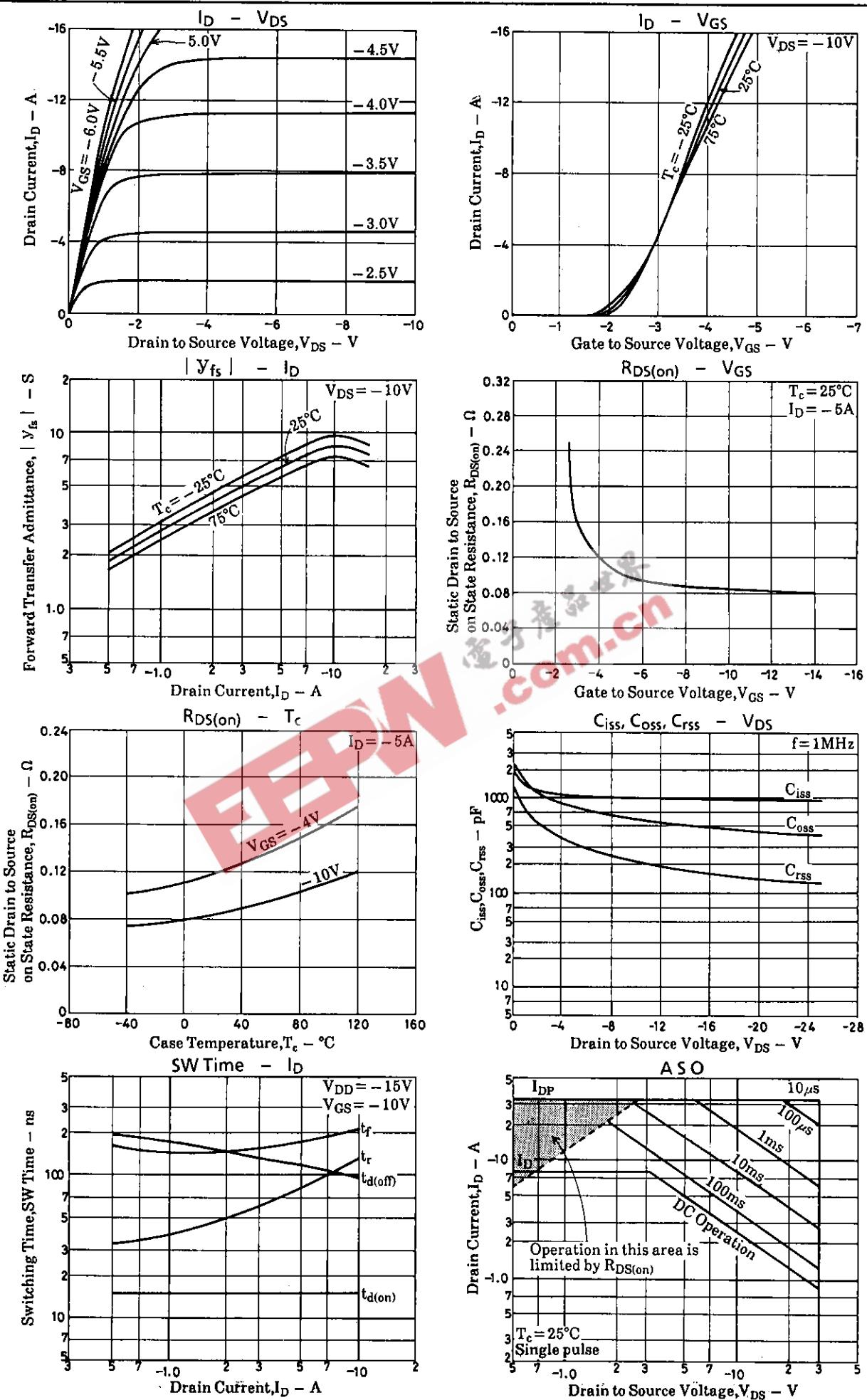
			unit
Drain to Source Voltage	V _{DSS}	-30	V
Gate to Source Voltage	V _{GSS}	±15	V
Drain Current(DC)	I _D	-8	A
Drain Current(Pulse)	I _{DP}	PW≤10μs, duty cycle≤1% -32	A
Allowable Power Dissipation	P _D	2.0	W
	T _c =25°C	25	W
Channel Temperature	T _{ch}	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

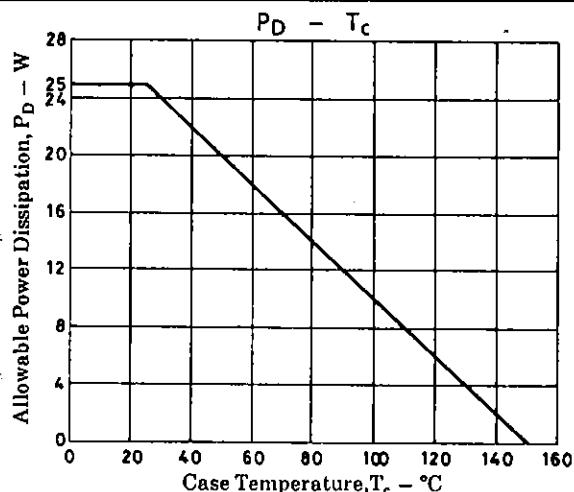
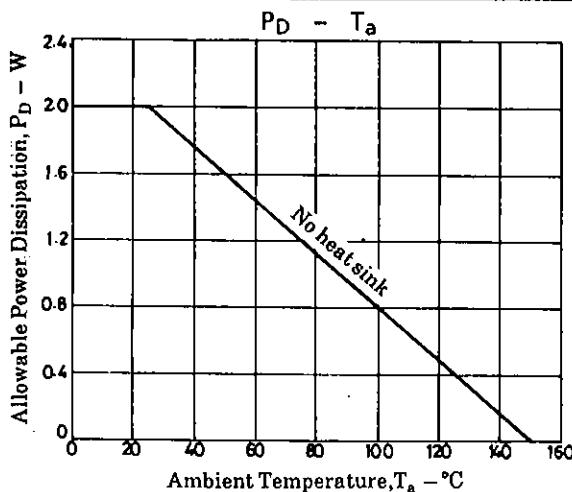
Electrical Characteristics at Ta=25°C

			min	typ	max	unit
D-S Breakdown Voltage	V _{(BR)DSS}	I _D =-1mA, V _{GS} =0	-30			V
G-S Breakdown Voltage	V _{(BR)GSS}	I _G =±100μA, V _{DS} =0	±15			V
Zero Gate Voltage	I _{DSS}	V _{DS} =-30V, V _{GS} =0			-100	μA
Drain Current						
Gate to Source Leakage Current	I _{GSS}	V _{GS} =±12V, 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 =-5A	4	6.5		S
Static Drain to Source on State Resistance	R _{DS(on)}	I _D =-5A, V _{GS} =-10V		85	120	mΩ
Input Capacitance	C _{iss}	I _D =-5A, V _{GS} =-4V		120	170	mΩ
Output Capacitance	C _{oss}	V _{DS} =-10V, f=1MHz		1000		pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} =-10V, f=1MHz		600		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.		220		pF
Rise Time	t _r	"		15		ns
Turn-OFF Delay Time	t _{d(off)}	"		80		ns
Fall Time	t _f	"		120		ns
Diode Forward Voltage	V _{SD}	I _S =-8A, V _{GS} =0		170		ns
			-1.0	-1.5		V

Switching Time Test Circuit**Package Dimensions 2063**
(unit : mm)

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