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|--------------|----------|---|
| SANYO | No.5064A | 2SJ420 |
| | | P-Channel Silicon MOSFET Ultrahigh-Speed Switching Applications |

Features

- Low ON resistance.
- Ultrahigh-speed switching.
- 2.5V drive.

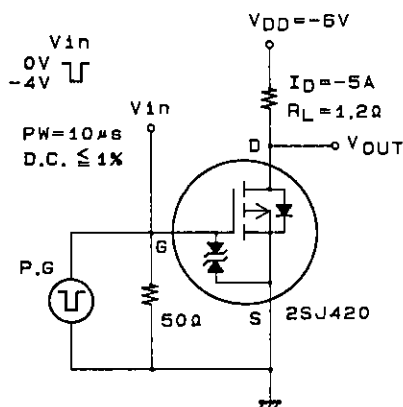
Absolute Maximum Ratings at Ta=25°C

| | | | unit |
|-----------------------------|------------------|---|-------|
| Drain-to-Source Voltage | V _{DSS} | -12 | V |
| Gate-to-Source Voltage | V _{GSS} | ±10 | V |
| Drain Current (DC) | I _D | -5 | A |
| Drain Current (Pulse) | I _{DP} | PW ≤ 10μs, duty cycle ≤ 1% | -32 A |
| Allowable Power Dissipation | P _D | Mounted on a ceramic board (1000mm ² × 0.8mm) | 2.0 W |
| Channel Temperature | T _{ch} | 150 | °C |
| Storage Temperature | T _{stg} | -55 to +150 | °C |

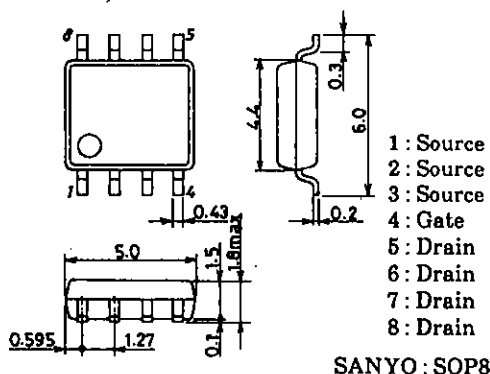
Electrical Characteristics at Ta=25°C

| | | min | typ | max | unit |
|--------------------------------|--|------|------|------|------|
| D-S Breakdown Voltage | V _{(BR)DSS} I _D = -1mA, V _{GS} = 0 | -12 | | | V |
| Zero-Gate Voltage | I _{DSS} V _{DS} = -10V, V _{GS} = 0 | | | -100 | μA |
| Drain Current | | | | | |
| Gate-to-Source Leakage Current | I _{GSS} V _{GS} = ±8V, V _{DS} = 0 | | | ±10 | μA |
| Cutoff Voltage | V _{GS(off)} V _{DS} = -6V, I _D = -1mA | -0.4 | | -1.4 | V |
| Forward Transfer Admittance | Y _{fs} V _{DS} = -6V, I _D = -5A | 8 | 12 | | S |
| Static Drain-to-Source | R _{DS(on)1} I _D = -5A, V _{GS} = -4V | | 50 | 63 | mΩ |
| ON-State Resistance | R _{DS(on)2} I _D = -2A, V _{GS} = -2.5V | | 70 | 108 | mΩ |
| Input Capacitance | C _{iss} V _{DS} = -6V, f = 1MHz | | 1200 | | pF |
| Output Capacitance | C _{oss} V _{DS} = -6V, f = 1MHz | | 1100 | | pF |
| Reverse Transfer Capacitance | C _{rss} V _{DS} = -6V, f = 1MHz | | 400 | | pF |
| Turn-ON Delay Time | t _{d(on)} See specified Test Circuit. | | 25 | | ns |
| Rise Time | t _r " | | 150 | | ns |
| Turn-OFF Delay Time | t _{d(off)} " | | 150 | | ns |
| Fall Time | t _f " | | 180 | | ns |
| Diode Forward Voltage | V _{SD} I _S = -5A, V _{GS} = 0 | -1.0 | -1.2 | | V |

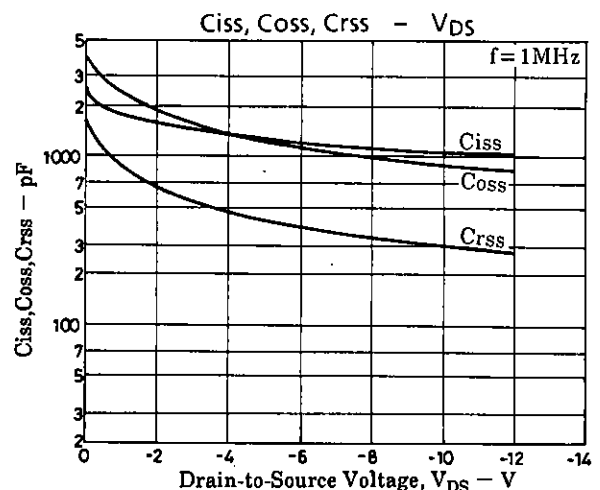
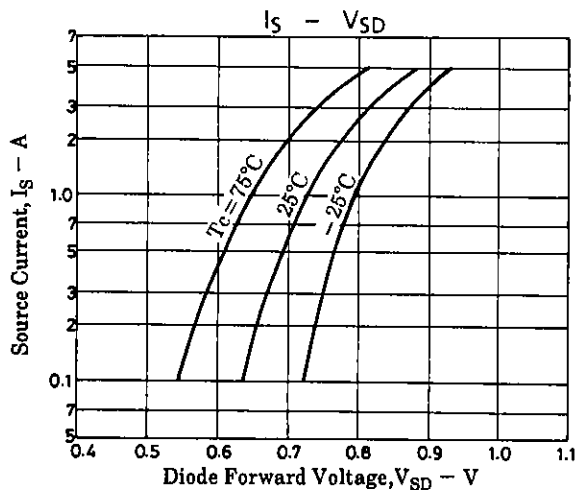
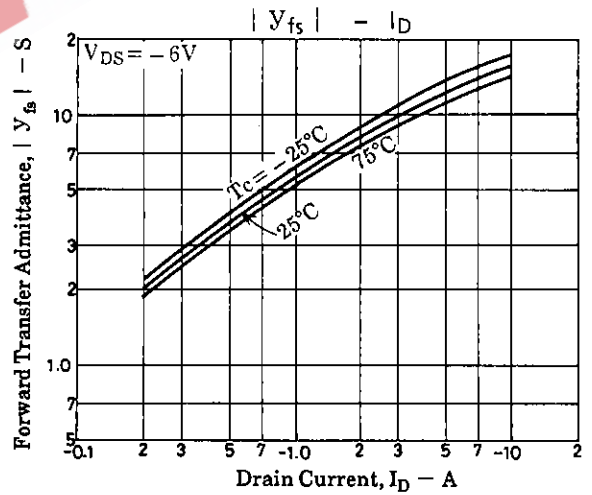
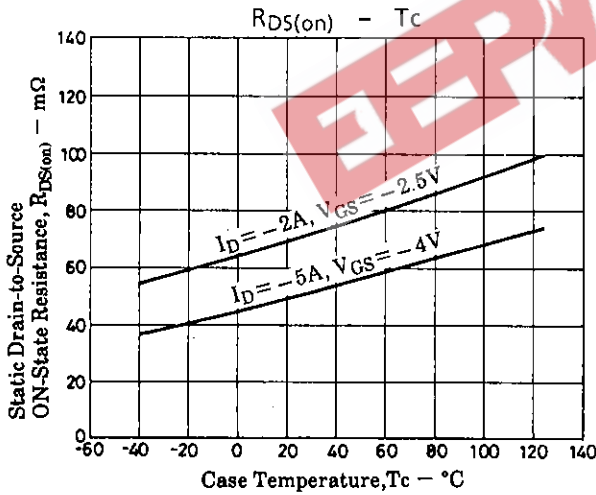
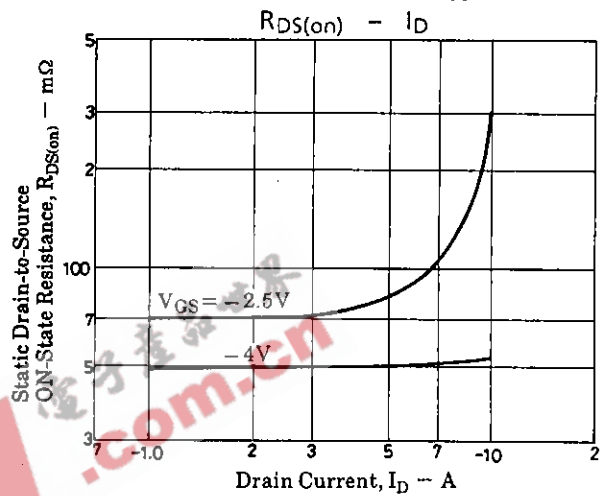
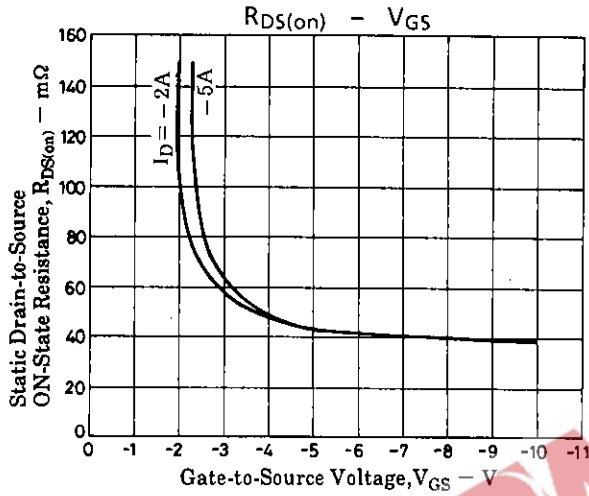
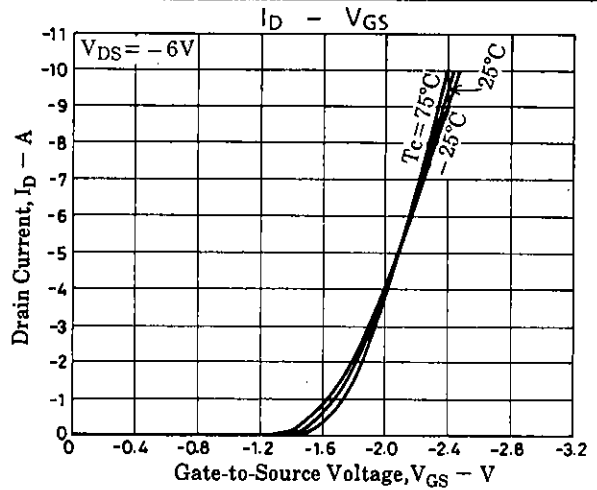
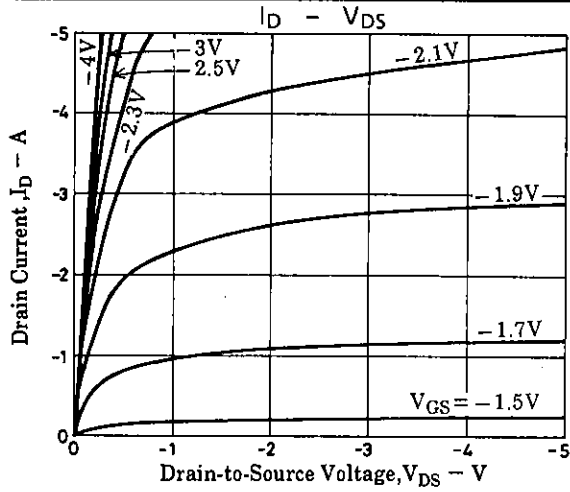
Switching Time Test Circuit

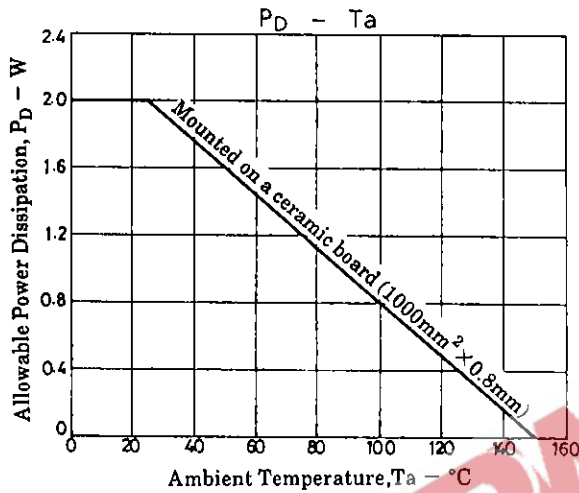
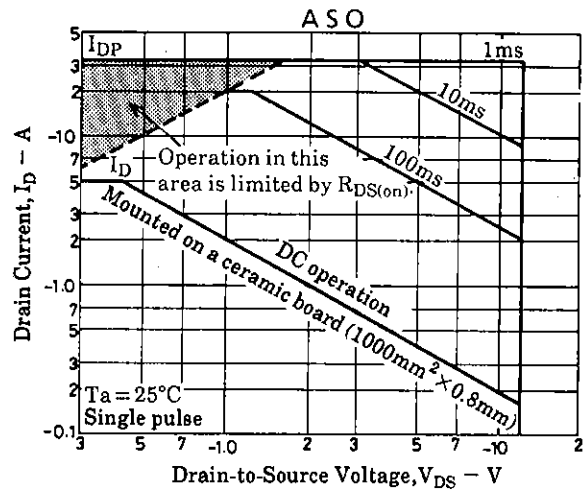
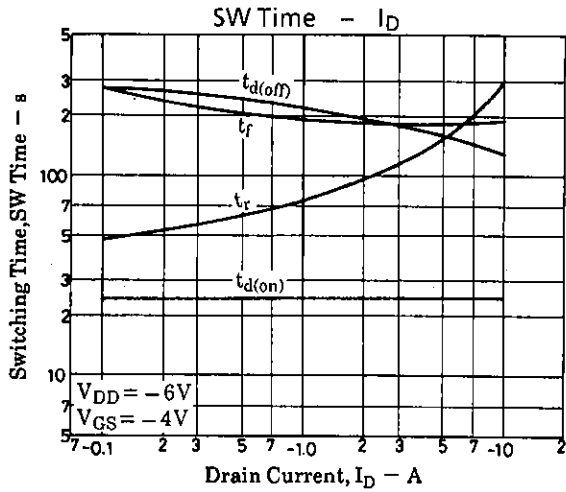


Package Dimensions 2116
(unit : mm)



SANYO : SOP8





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