

FX20ASJ-06

High-Speed Switching Use Pch Power MOS FET

REJ03G1440-0200 (Previous: MEJ02G0274-0101)

Rev.2.00

Aug 07, 2006

Features

• Drive voltage: 4 V

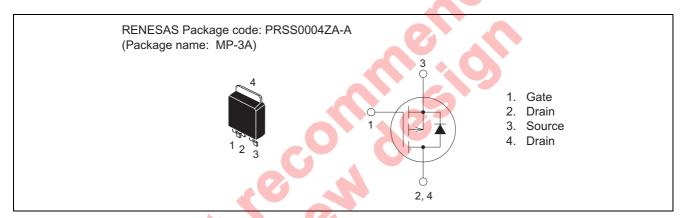
• V_{DSS} : -60 V

• $r_{DS(ON) (max)} : 97 \text{ m}\Omega$

• $I_D: -20 A$

• Integrated Fast Recovery Diode (TYP.): 50 ns

Outline



Applications

Motor control, Lamp control, Solenoid control, DC-DC converters, etc.

Maximum Ratings

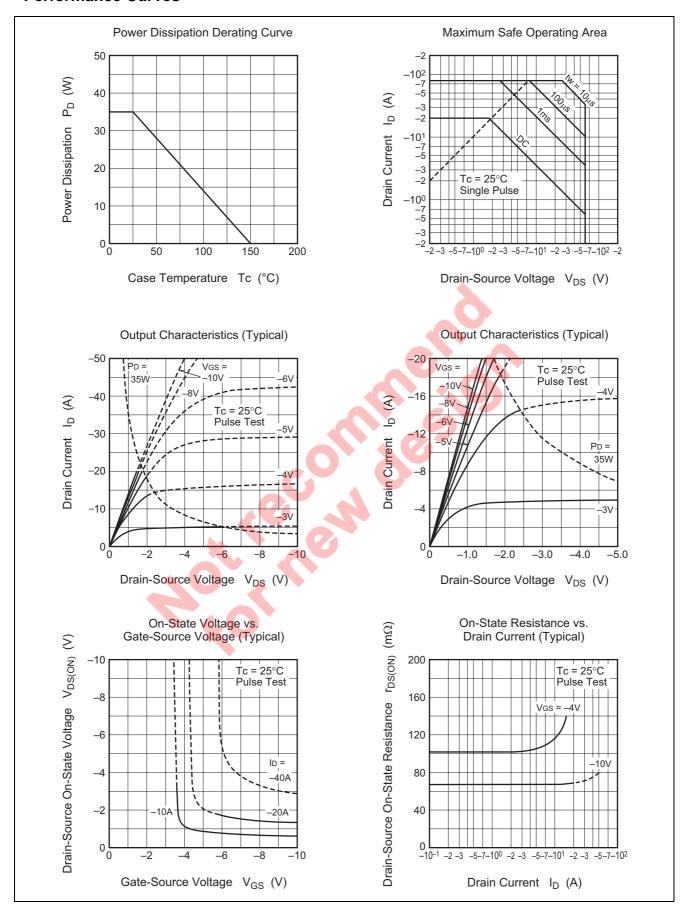
 $(Tc = 25^{\circ}C)$

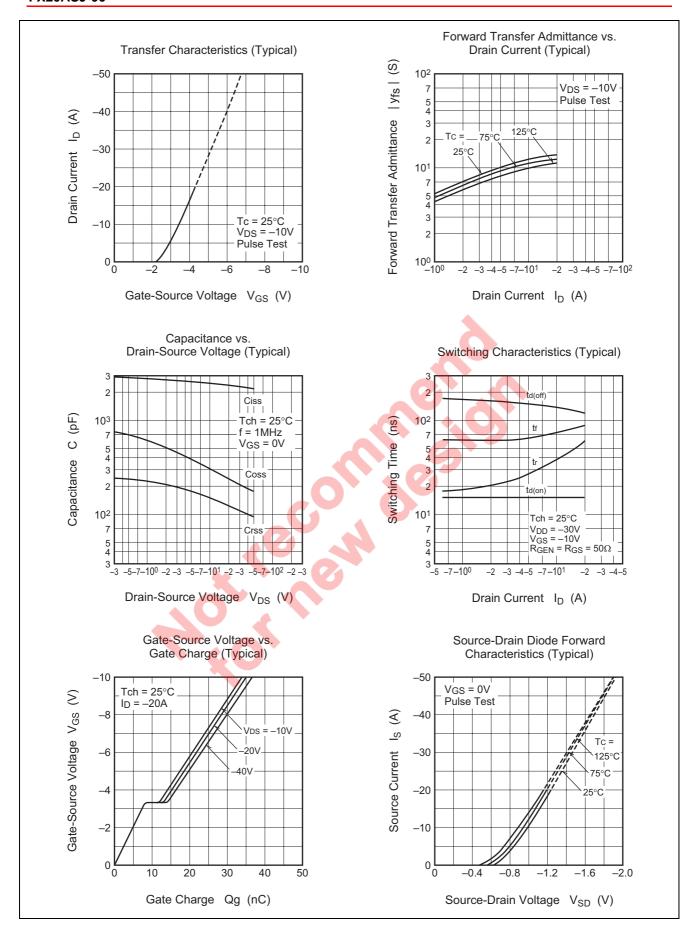
| Parameter | Symbol | Ratings | Unit | Conditions |
|----------------------------------|-----------------|--------------|------|----------------|
| Drain-source voltage | V_{DSS} | -60 | V | $V_{GS} = 0 V$ |
| Gate-source voltage | V_{GSS} | ±20 | V | $V_{DS} = 0 V$ |
| Drain current | I _D | -20 | А | |
| Drain current (Pulsed) | I _{DM} | -80 | А | |
| Avalanche drain current (Pulsed) | I _{DA} | -20 | А | L = 100 μH |
| Source current | Is | -20 | А | |
| Source current (Pulsed) | I _{SM} | -80 | А | |
| Maximum power dissipation | P _D | 35 | W | |
| Channel temperature | Tch | - 55 to +150 | °C | |
| Storage temperature | Tstg | - 55 to +150 | °C | |
| Mass | _ | 0.32 | g | Typical value |

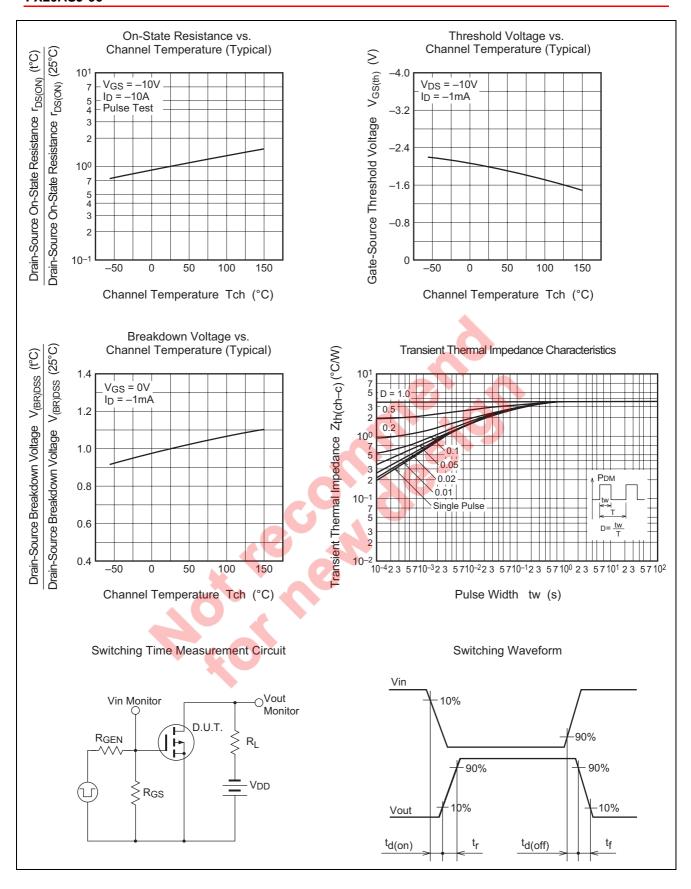
Electrical Characteristics

 $(Tch = 25^{\circ}C)$

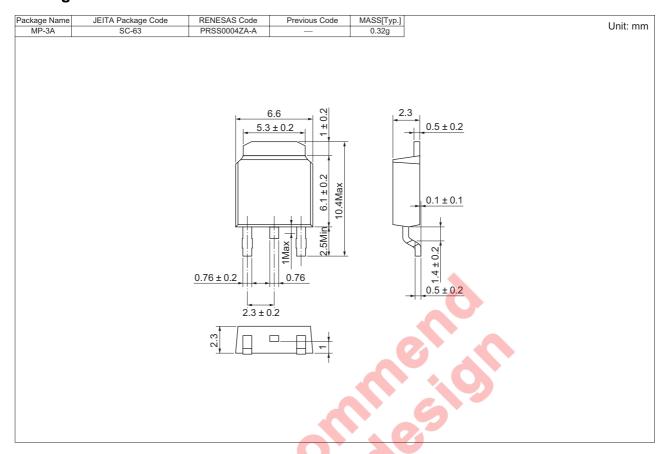
Performance Curves







Package Dimensions



Order Code

| Lead form | Standard packing | Qua | antity | Standard order code | Standard order code example |
|----------------------|-------------------------|-----|--------|--------------------------------------|-----------------------------|
| Surface-mounted type | Taping | | 3000 | Type name – T +Direction (1 or 2) +3 | FX20ASJ-06-T13 |
| Surface-mounted type | Plastic Magazine (Tube) | | 75 | Type name | FX20ASJ-06 |

Note: Please confirm the specification about the shipping in detail.

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