imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

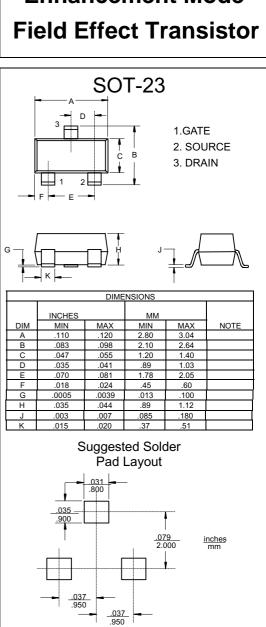
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking Code: 3407

Maximum Ratings @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Rating | Unit | |
|------------------|--|-------------|------|--|
| V _{DS} | Drain-source Voltage | -30 | V | |
| I _D | Drain Current-Continuous | -4.1 | А | |
| V _{GS} | Gate-source Voltage | <u>+</u> 20 | V | |
| PD | Power Dissipation | 0.35 | W | |
| R _{°JA} | Thermal Resistance Junction to Ambient | 357 | °C/W | |
| TJ | Operating Junction Temperature | -55 to +150 | °C | |
| T _{STG} | Storage Temperature | -55 to +150 | °C | |

Equivalent Circuit





www.mccsemi.com

SI3407

P-Channel Enhancement Mode Field Effect Transistor

2016/07/01



| Parameter | Symbol | Test Condition | Min | Тур | Max | Units |
|-------------------------------------|-----------------|--|-----|------|------|-------|
| Static characteristics | | | | | • | |
| Drain-source breakdown voltage | BVDSS | Vgs = 0V, Id =-250µA | -30 | | | V |
| Zero gate voltage drain current | IDSS | V _{DS} =-24V,V _{GS} = 0V | | | -1 | μA |
| Gate-source leakage current | lgss | V _{GS} =±20V, V _{DS} = 0V | | | ±100 | nA |
| | _ | Vgs =-10V, Id =-4.1A | | 50 | 60 | mΩ |
| Drain-source on-resistance (note 1) | RDS(on) | Vgs =-4.5V, Id =-3A | | 68 | 87 | mΩ |
| Forward tranconductance (note 1) | g FS | V _{DS} =-5V, I _D =-4A | 5.5 | | | S |
| Gate threshold voltage | VGS(th) | VDS =V _{GS} , ID =-250µA | -1 | -1.4 | -3 | V |
| Diode forward voltage (note 1) | V _{SD} | I _S =-1A,V _{GS} =0V | | | -1 | V |
| Dynamic characteristics (note 2) | • | | • | | | |
| Input capacitance | Ciss | | | 700 | | pF |
| Output capacitance | Coss | VDS =-15V,VGS =0V,f =1MHz | | 120 | | pF |
| Reverse transfer capacitance | Crss | | | 75 | | pF |
| Switching Characteristics (note 2) | • | | • | | | |
| Turn-on delay time | td(on) | | | 8.6 | | ns |
| Turn-on rise time | tr | V _{GS} =-10V,V _{DS} =-15V, | | 5.0 | | ns |
| Turn-off delay time | td(off) | R _L =3.6Ω,R _{GEN} =3Ω | | 28.2 | | ns |
| Turn-off fall time | tr | | | 13.5 | | ns |

MOSFET ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Notes:

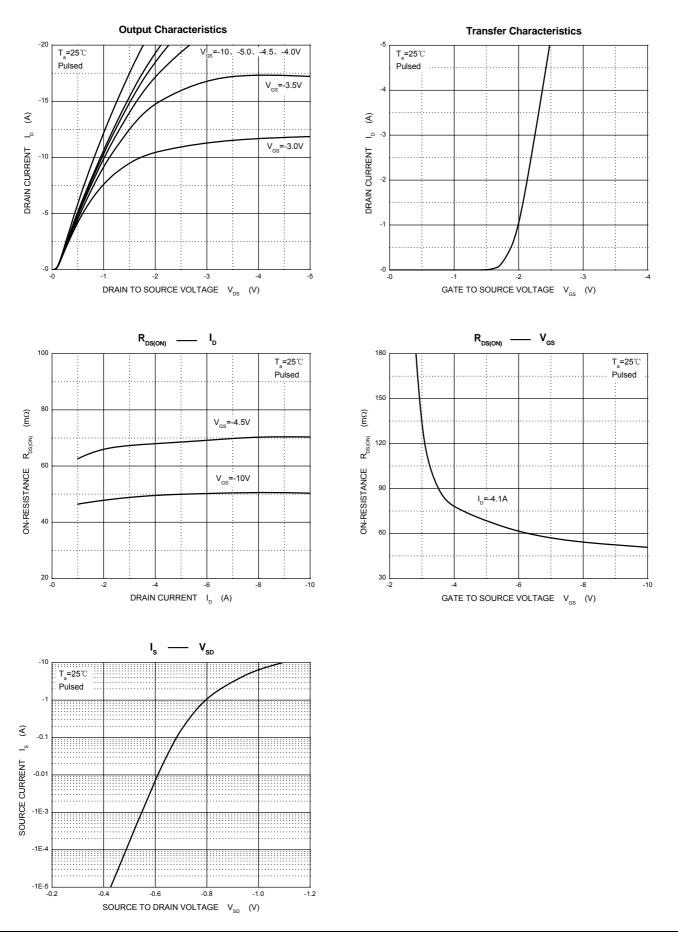
1. Pulse test: Pulse width \leq 300µs, duty cycle \leq 2%.

2. These parameters have no way to verify.

www.mccsemi.com



Typical characteristics



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2016/07/01



Ordering Information :

| Device | Packing | | |
|----------------|-----------------------|--|--|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel | | |

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