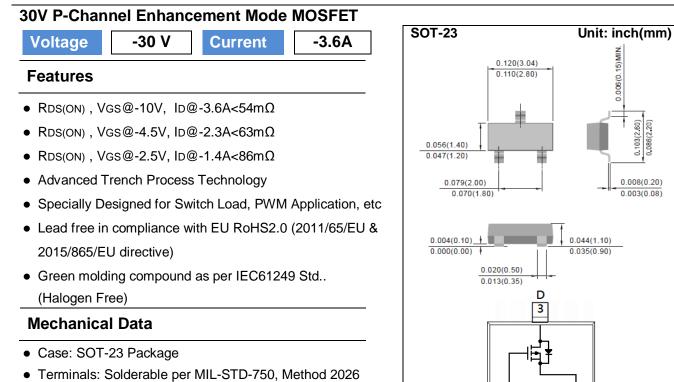
| ΡΛΝ | ĴΪΤ |
|-----|-------------------|
| | SEMI CONDUCTOR |





Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

| PARAMETER | | SYMBOL | LIMIT | UNITS |
|---|----------------------|----------------------------------|---------|-------|
| Drain-Source Voltage | | V _{DS} | -30 | V |
| Gate-Source Voltage | V _{GS} | <u>+</u> 12 | V | |
| Continuous Drain Current | I _D | -3.6 | А | |
| Pulsed Drain Current | | I _{DM} | -14.4 | А |
| Power Dissipation | T _a =25°C | P _D | 1.25 | W |
| | Derate above 25°C | | 10 | mW/°C |
| Operating Junction and Storage Temperature Range | | T _J ,T _{STG} | -55~150 | °C |
| Typical Thermal Resistance - Junction to Ambient ^(Note 3) | | $R_{	extsf{	heta}JA}$ | 100 | °C/W |

1

G

2



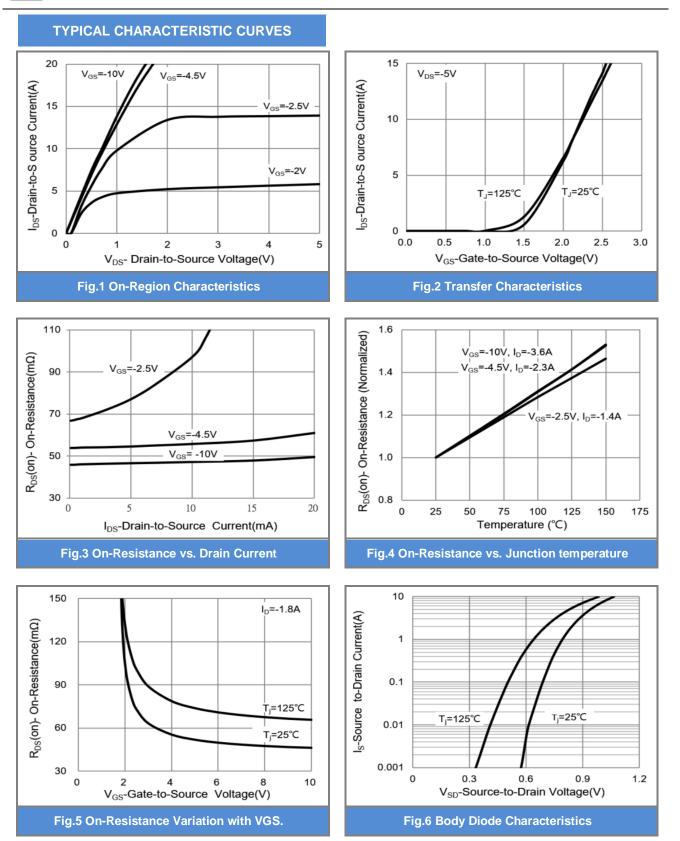
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|--|---------------------|--|------|-------|--------------|-------|
| Static | | | | | | |
| Drain-Source Breakdown Voltage | BV_{DSS} | V_{GS} =0V, I _D =-250uA | -30 | - | - | V |
| Gate Threshold Voltage | $V_{GS(th)}$ | $V_{DS}=V_{GS}$, $I_{D}=-250$ uA | -0.5 | -1 | -1.3 | V |
| Drain-Source On-State Resistance | R _{DS(on)} | V _{GS} =-10V, I _D =-3.6A | - | 45 | 54 | mΩ |
| | | V _{GS} =-4.5V, I _D =-2.3A | - | 52 | 63 | |
| | | V _{GS} =-2.5V, I _D =-1.4A | - | 71 | 86 | |
| Zero Gate Voltage Drain Current | I _{DSS} | V_{DS} =-30V, V_{GS} =0V | - | - | -1 | uA |
| Gate-Source Leakage Current | I _{GSS} | V _{GS} = <u>+</u> 12V, V _{DS} =0V | - | - | <u>+</u> 100 | nA |
| Dynamic (Note 5) | | | | | | |
| Total Gate Charge | Qg | | - | 19 | - | nC |
| Gate-Source Charge | Q_gs | V _{DS} =-15V, I _D =-3.6A, V _{GS} =-10V ^(Note 1,2) | - | 2.0 | - | |
| Gate-Drain Charge | Q_{gd} | | - | 2.2 | - | |
| Input Capacitance | Ciss | V _{DS} =-15V, V _{GS} =0V, f=1.0MHZ | - | 994 | - | pF |
| Output Capacitance | Coss | | - | 78 | - | |
| Reverse Transfer Capacitance | Crss | | - | 58 | - | |
| Turn-On Delay Time | td _(on) | | - | 4.6 | - | |
| Turn-On Rise Time | tr | V_{DD} =-15V, I _D =-3.6A, V_{GS} =-10V, R_{G} =6 Ω ^(Note 1,2) | - | 22 | - | |
| Turn-Off Delay Time | td _(off) | | - | 41 | - | ns |
| Turn-Off Fall Time | tf | R _G =012 | - | 25 | - | |
| Drain-Source Diode | | | | | | |
| Maximum Continuous Drain-Source Diode Forward Current | I _S | | - | - | -1.5 | A |
| Diode Forward Voltage | V_{SD} | I _S =-1.0A, V _{GS} =0V | - | -0.79 | -1.2 | V |

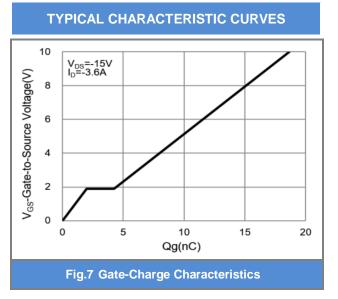
NOTES :

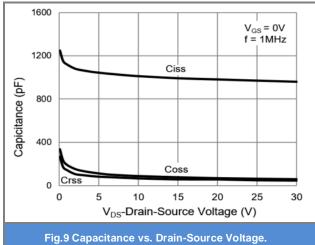
- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{0JA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins mounted on a 1 inch FR-4 with 2oz. square pad of copper
- 4. The maximum current rating is package limited
- 5. Guaranteed by design, not subject to production testing

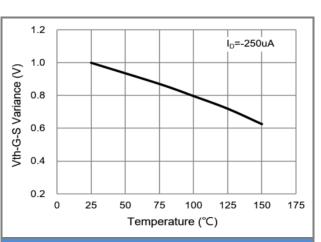
PJA3401A















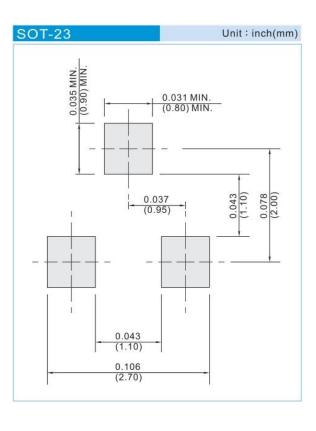




PART NO PACKING CODE VERSION

| Part No Packing Code | Package Type | Packing Type | Marking | Version |
|----------------------|--------------|--------------------|---------|--------------|
| PJA3401A_R1_00001 | SOT-23 | 3K pcs / 7" reel | A1A | Halogen free |
| PJA3401A_R2_00001 | SOT-23 | 12K pcs / 13" reel | A1A | Halogen free |

MOUNTING PAD LAYOUT





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