

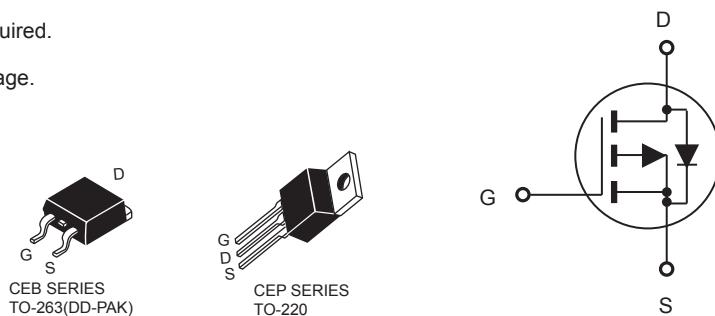


CEP10P10/CEB10P10

P-Channel Enhancement Mode Field Effect Transistor

FEATURES

- -100V, -9A, $R_{DS(ON)} = 350\text{m}\Omega$ @ $V_{GS} = -10\text{V}$.
- Super high dense cell design for extremely low $R_{DS(ON)}$.
- High power and current handing capability.
- Lead free product is acquired.
- TO-220 & TO-263 package.



ABSOLUTE MAXIMUM RATINGS $T_C = 25^\circ\text{C}$ unless otherwise noted

| Parameter | Symbol | Limit | Units |
|---|----------------|------------|--------------------------------|
| Drain-Source Voltage | V_{DS} | -100 | V |
| Gate-Source Voltage | V_{GS} | ± 30 | V |
| Drain Current-Continuous | I_D | -9 | A |
| Drain Current-Pulsed ^a | I_{DM} | -36 | A |
| Maximum Power Dissipation @ $T_C = 25^\circ\text{C}$ - Derate above 25°C | P_D | 75 0.5 | W $\text{W}/^\circ\text{C}$ |
| Operating and Store Temperature Range | T_J, T_{stg} | -55 to 175 | $^\circ\text{C}$ |

Thermal Characteristics

| Parameter | Symbol | Limit | Units |
|---|----------|-------|---------------------------|
| Thermal Resistance, Junction-to-Case | R_{JC} | 2 | $^\circ\text{C}/\text{W}$ |
| Thermal Resistance, Junction-to-Ambient | R_{JA} | 62.5 | $^\circ\text{C}/\text{W}$ |

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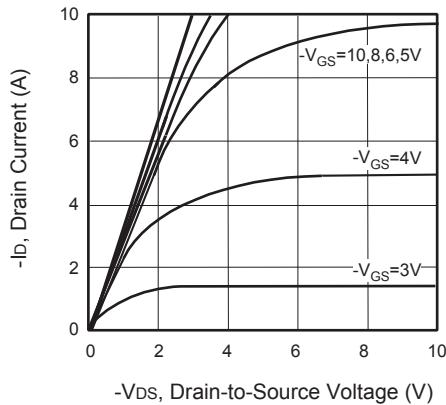


Figure 1. Output Characteristics

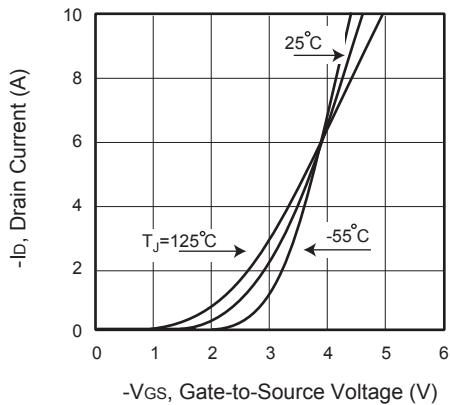


Figure 2. Transfer Characteristics

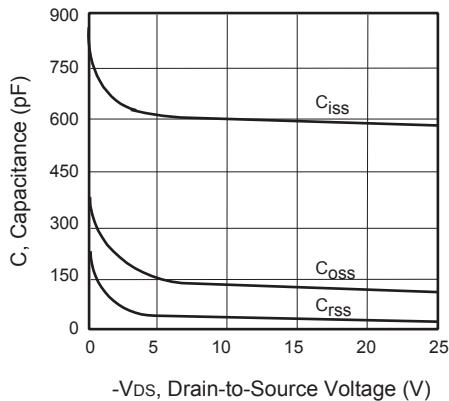


Figure 3. Capacitance

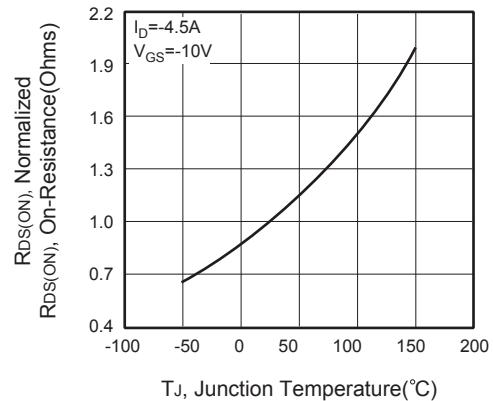


Figure 4. On-Resistance Variation with Temperature

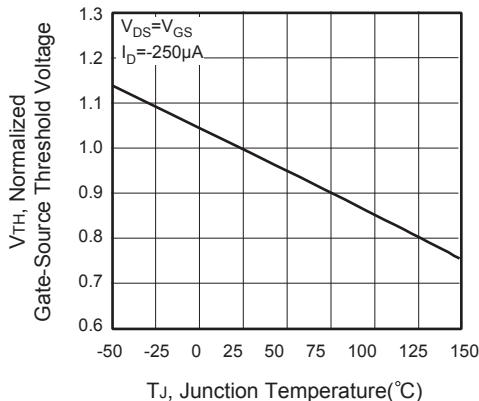


Figure 5. Gate Threshold Variation with Temperature

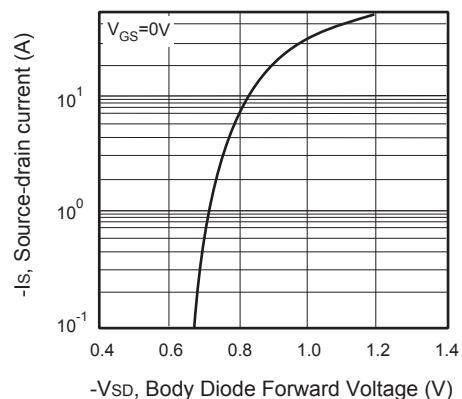


Figure 6. Body Diode Forward Voltage Variation with Source Current



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