



查询"CEB1165"供应商

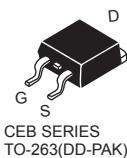
# CEP1165/CEB1165 □ CEF1165

## N-Channel Enhancement Mode Field Effect Transistor

### FEATURES

Type	$V_{DSS}$	$R_{DS(ON)}$	$I_D$	@ $V_{GS}$
CEP1165	600V	0.9Ω	10A	10V
CEB1165	600V	0.9Ω	10A	10V
CEF1165	600V	0.9Ω	10A <sup>e</sup>	10V

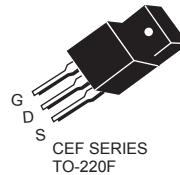
- Super high dense cell design for extremely low  $R_{DS(ON)}$ .
- High power and current handing capability.
- Lead free product is acquired.



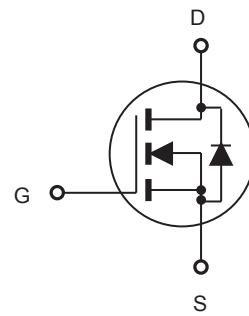
CEB SERIES  
TO-263(DD-PAK)



CEP SERIES  
TO-220



CEF SERIES  
TO-220F



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

Parameter	Symbol	Limit		Units
		TO-220/263	TO-220F	
Drain-Source Voltage	$V_{DS}$	600		V
Gate-Source Voltage	$V_{GS}$		±30	V
Drain Current-Continuous	$I_D$	10	10 <sup>e</sup>	A
Drain Current-Pulsed <sup>a</sup>	$I_{DM}^f$	40	40 <sup>e</sup>	A
Maximum Power Dissipation @ $T_C = 25^\circ\text{C}$ - Derate above $25^\circ\text{C}$	$P_D$	167 1.33	50 0.4	W W/°C
Operating and Store Temperature Range	$T_J, T_{stg}$	-55 to 150		°C

### Thermal Characteristics

Parameter	Symbol	Limit		Units
Thermal Resistance, Junction-to-Case	$R_{JC}$	0.75	2.5	°C/W
Thermal Resistance, Junction-to-Ambient	$R_{JA}$	62.5	65	°C/W

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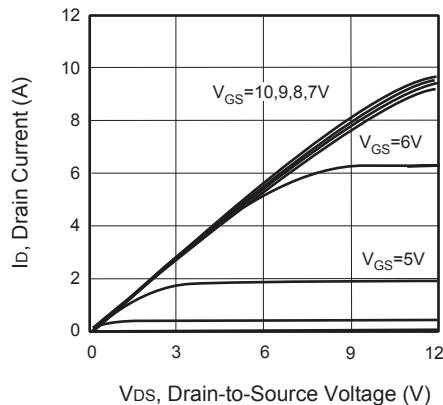


Figure 1. Output Characteristics

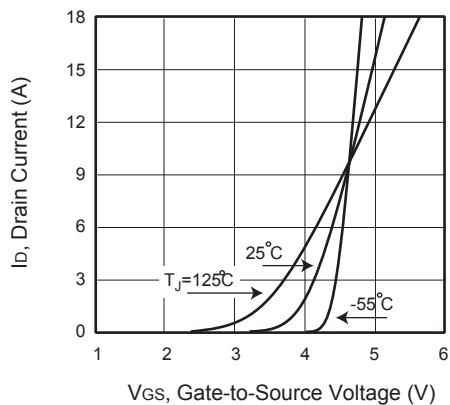


Figure 2. Transfer Characteristics

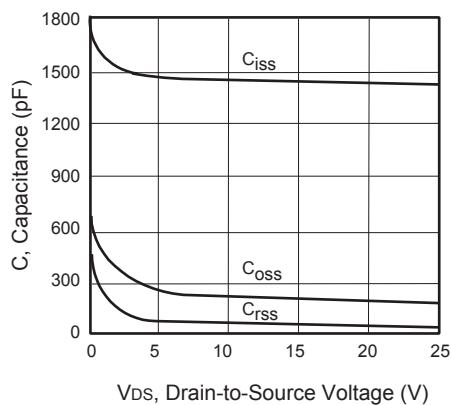


Figure 3. Capacitance

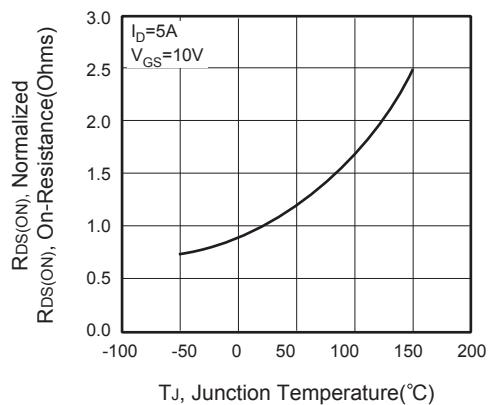


Figure 4. On-Resistance Variation with Temperature

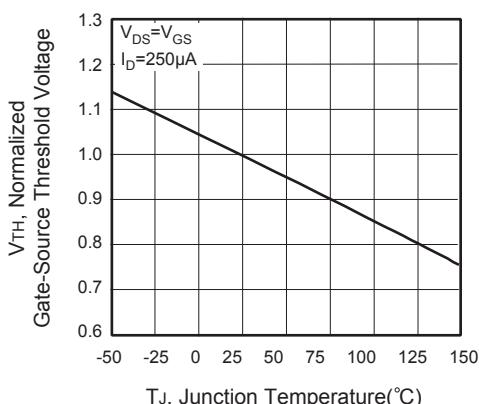


Figure 5. Gate Threshold Variation with Temperature

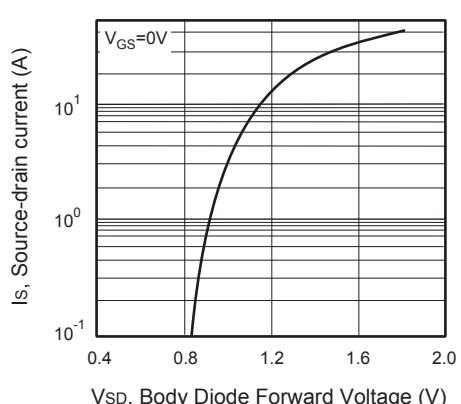


Figure 6. Body Diode Forward Voltage Variation with Source Current

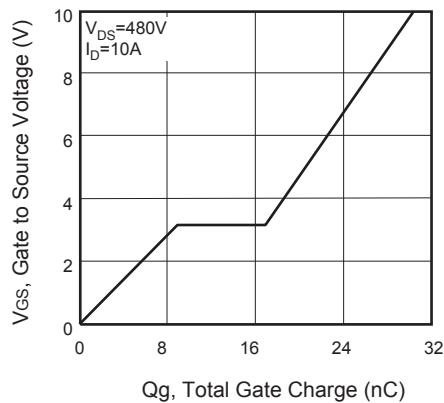


Figure 7. Gate Charge

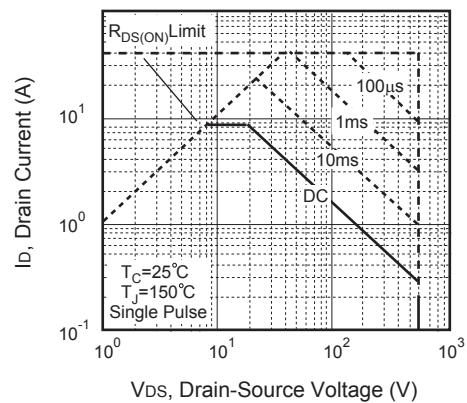


Figure 8. Maximum Safe Operating Area

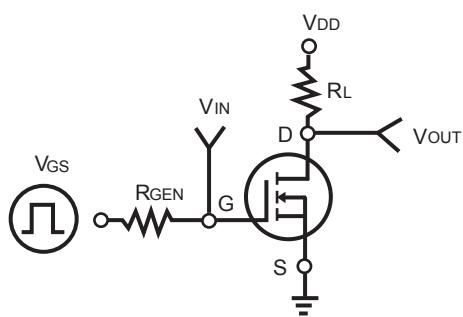


Figure 9. Switching Test Circuit

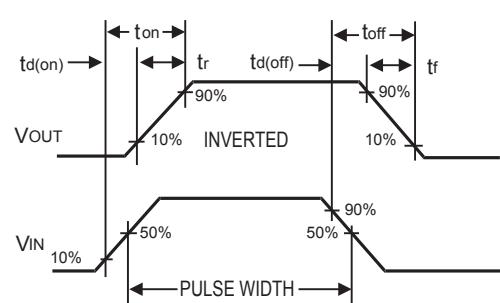


Figure 10. Switching Waveforms

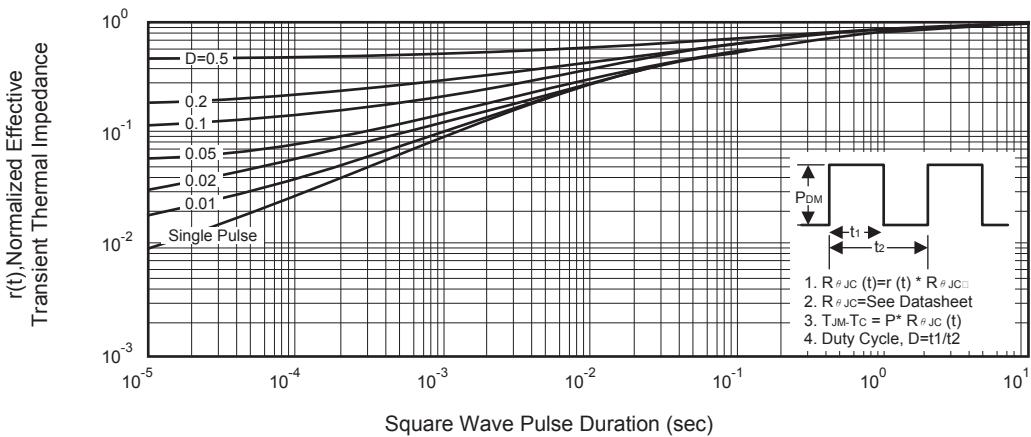


Figure 11. Normalized Thermal Transient Impedance Curve