



CEP80N15/CEB80N15 CEF80N15

Electrical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Off Characteristics						
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS} = 0V, I_D = 250\mu A$	150			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 150V, V_{GS} = 0V$			1	μA
Gate Body Leakage Current, Forward	I_{GSSF}	$V_{GS} = 20V, V_{DS} = 0V$			100	nA
Gate Body Leakage Current, Reverse	I_{GSSR}	$V_{GS} = -20V, V_{DS} = 0V$			-100	nA
On Characteristics^b						
Gate Threshold Voltage	$V_{GS(th)}$	$V_{GS} = V_{DS}, I_D = 250\mu A$	2		4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = 10V, I_D = 35A$		14	19	m Ω
Dynamic Characteristics^c						
Input Capacitance	C_{iss}	$V_{DS} = 25V, V_{GS} = 0V,$ $f = 800KHz$		8540		pF
Output Capacitance	C_{oss}			455		pF
Reverse Transfer Capacitance	C_{rss}			365		pF
Switching Characteristics^c						
Turn-On Delay Time	$t_{d(on)}$	$V_{DD} = 76V, I_D = 38A,$ $V_{GS} = 10V, R_{GEN} = 5\Omega$		45	90	ns
Turn-On Rise Time	t_r			24	48	ns
Turn-Off Delay Time	$t_{d(off)}$			193	386	ns
Turn-Off Fall Time	t_f			33	66	ns
Total Gate Charge	Q_g	$V_{DS} = 76V, I_D = 38A,$ $V_{GS} = 10V$		262	340	nC
Gate-Source Charge	Q_{gs}			53		nC
Gate-Drain Charge	Q_{gd}			83		nC
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Current	I_S^f				76	A
Drain-Source Diode Forward Voltage ^b	V_{SD}	$V_{GS} = 0V, I_S = 76A^g$			1.2	V
Notes : □ a.Repetitive Rating : Pulse width limited by maximum junction temperature . b.Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$. □ c.Guaranteed by design, not subject to production testing. □ d.Limited only by maximum temperature allowed . e .Pulse width limited by safe operating area . f .Full package $I_{S(max)} = 37A$. g.Full package V_{SD} test condition $I_S = 37A$.						

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