



**ELECTRICAL RATINGS** ( $T_{case} = 25^{\circ}C$  unless otherwise stated)

	Characteristic	Test Conditions		Min.	Typ.	Max.	Unit
$BV_{DSX}$	Drain – Source Breakdown Voltage	$V_{GS} = -10V$	BUZ900X4S	160			V
		$I_D = 10mA$	BUZ901X4S	200			
$BV_{GSS}$	Gate – Source Breakdown Voltage	$V_{DS} = 0$	$I_G = \pm 100\mu A$	$\pm 14$			V
$V_{GS(OFF)}$	Gate – Source Cut-Off Voltage	$V_{DS} = 10V$	$I_D = 100mA$	0.1		1.5	V
$V_{DS(SAT)}^*$	Drain – Source Saturation Voltage	$V_{GD} = 0$	$I_D = 32A$			12	V
$I_{DSX}$	Drain – Source Cut-Off Current	$V_{GS} = -10V$	BUZ900X4S			10	mA
		$V_{DS} = 160V$	BUZ901X4S			10	mA
		$V_{DS} = 200V$					
$y_{fs}^*$	Forward Transfer Admittance	$V_{DS} = 10V$	$I_D = 5A$	2		6	S
$C_{iss}$	Input Capacitance	$V_{DS} = 10V$	$f = 1MHz$		TBE		pF
$C_{oss}$	Output Capacitance				TBE		
$C_{riss}$	Reverse Transfer Capacitance				TBE		
$t_{on}$	Turn-on Time	$V_{DS} = 20V$	$I_D = 7A$		TBE		nS
$t_{off}$	Turn-off Time				TBE		

\* Pulse Test: Pulse Width =  $300\mu S$  , Duty Cycle  $\leq 2\%$

