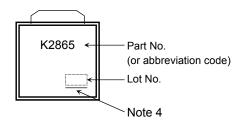
Electrical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Condition	Min	Тур.	Max	Unit
Gate leakage current		I _{GSS}	V _{GS} = ±25 V, V _{DS} = 0 V	_	_	±10	μA
Gate-source breakdown voltage		V (BR) GSS	$I_G = \pm 10 \ \mu A, \ V_{DS} = 0 \ V$	±30	_	_	V
Drain cutoff current		I _{DSS}	V _{DS} = 600 V, V _{GS} = 0 V	/	_	100	μA
Drain-source breakdown voltage		V (BR) DSS	I _D = 10 mA, V _{GS} = 0 V	600	_	_	V
Gate threshold voltage		V _{th}	V _{DS} = 10 V, I _D = 1 mA	2.0))^_	4.0	V
Drain-source ON-resistance		R _{DS} (ON)	V _{GS} = 10 V, I _D = 1 A) 	4.2	5.0	Ω
Forward transfer admittance		Y _{fs}	V _{DS} = 10 V, I _D = 1 A	0.8	1.7	_	S
Input capacitance		C _{iss}			380	_	
Reverse transfer capacitance		C _{rss}	V _{DS} = 10 V, V _{GS} = 0 V, f = 1 MHz	⁷ —	40	_	pF
Output capacitance		Coss		-	120		
Switching time	Rise time	t _r	V _{GS} 10V V _{OUT} V _{OUT} V _{OUT} R _L = 200Ω	- (15) I	ns
	Turn-on time	t _{on}			25) –	
	Fall time	t _f		(2)	20	_	
	Turn-off time	t _{off}	$V_{DD} = 200V$ Duty $\leq 1\%$, $t_{W} = 10\mu s$)_	80	_	
Total gate charge (gate-source plus gate-drain)		Q _g (_	9	_	
Gate-source charge		Q _{gs}	$V_{DD} \approx 480 \text{ V}, V_{GS} = 10 \text{ V}, I_D = 2 \text{ A}$	_	5	_	nC
Gate-drain ("Miller") charge		Q _{gd}		_	4	_	

Source-Drain Ratings and Characteristics (Ta = 25°C)

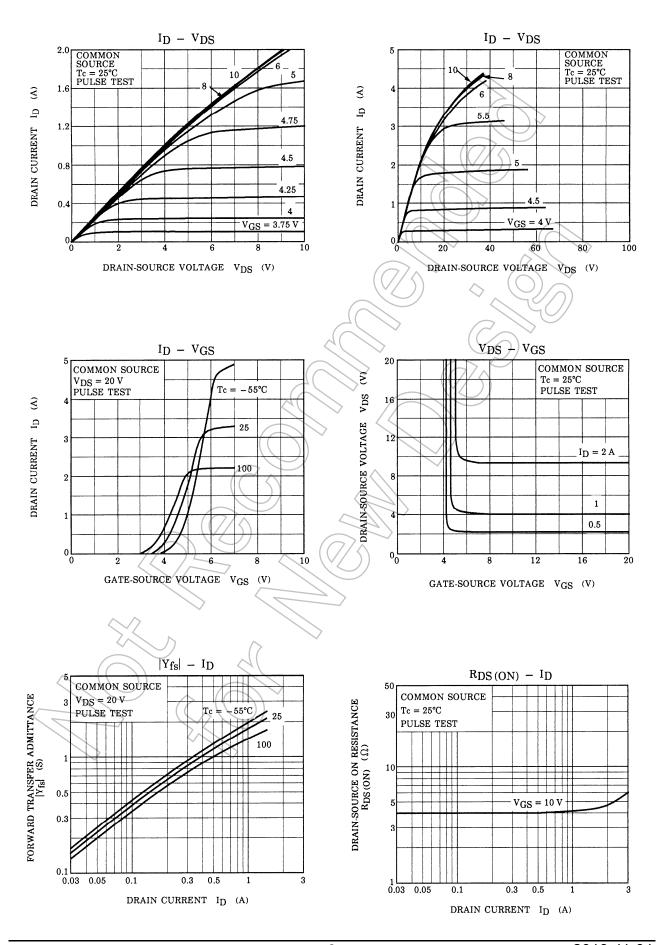
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Continuous drain reverse current (Note 1)	│ I _{DR} 〈	_	ı		2	Α
Pulse drain reverse current	I _{DRP}	t = 1 ms	_	_	5	Α
(Note 1)	I _{DRP}	t = 100 μs	_	_	8	Α
Forward voltage (diode)	V _{DSF}	I _{DR} = 2 A, V _{GS} = 0 V	_	_	-1.5	V
Reverse recovery time	tr	I _{DR} = 2 A, V _{GS} = 0 V	_	1000	_	ns
Reverse recovery charge	Q _{rr}	_	3.5	_	μC	

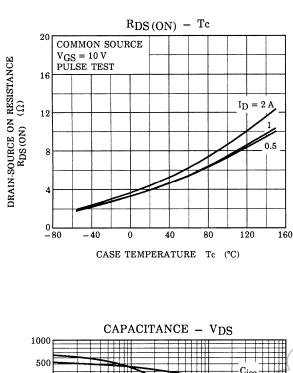
Marking

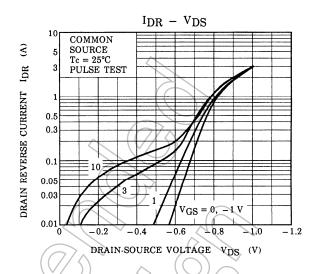


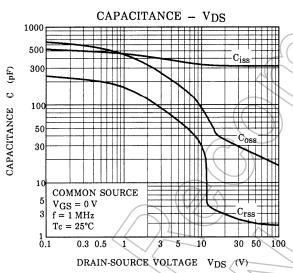
Note 4 : A line under a Lot No. identifies the indication of product Labels [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

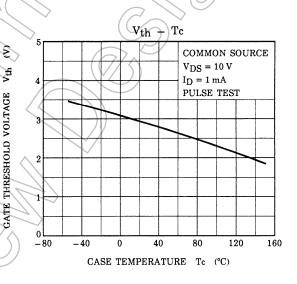
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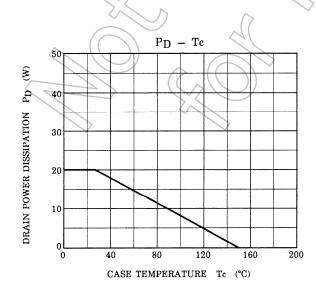


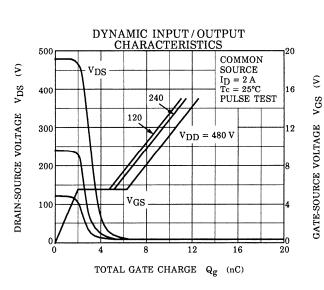


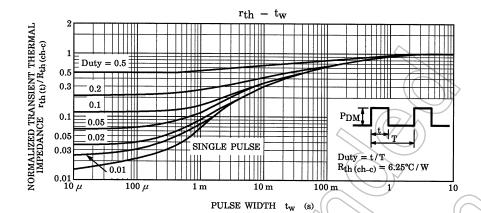


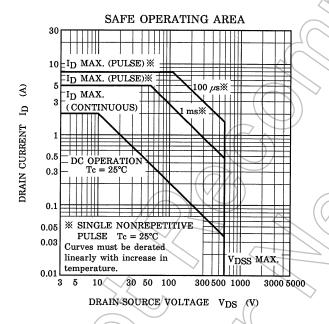


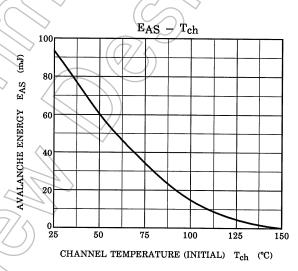


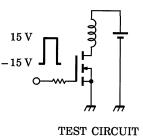


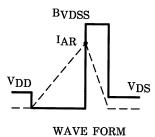












 $RG = 25 \Omega$ VDD = 90 V, L = 41 mH

$$E_{AS} = \frac{1}{2} \cdot L \cdot I^2 \cdot \left(\frac{B_{VDSS}}{B_{VDSS} - V_{DD}} \right)$$

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