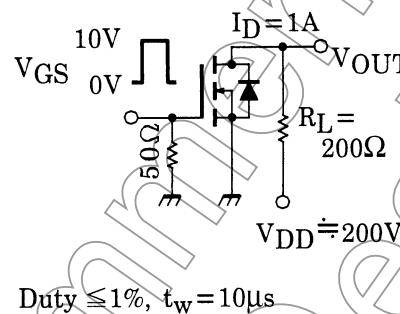


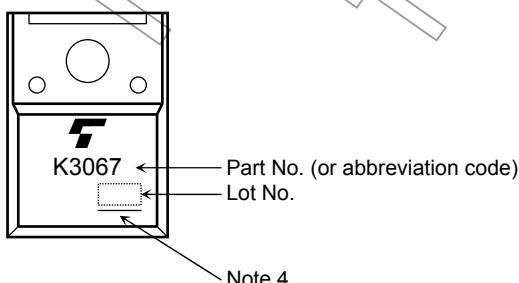
Electrical Characteristics ($T_a = 25^\circ C$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Gate leakage current	I_{GSS}	$V_{GS} = \pm 25 V, V_{DS} = 0 V$	—	—	± 10	μA
Gate-source breakdown voltage	$V_{(BR) GSS}$	$I_G = \pm 10 \mu A, V_{DS} = 0 V$	± 30	—	—	V
Drain cut-off 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}	$V_{DS} = 10 V, V_{GS} = 0 V, f = 1 MHz$	—	380	—	pF
Reverse transfer capacitance	C_{rss}		—	40	—	
Output capacitance	C_{oss}		—	120	—	
Switching time	Rise time	t_r	—	15	—	ns
	Turn-on time	t_{on}	—	25	—	
	Fall time	t_f	—	20	—	
	Turn-off time	t_{off}	—	80	—	
Total gate charge (Gate-source plus gate-drain)	Q_g	$V_{DD} \approx 480 V, V_{GS} = 10 V, I_D = 2 A$	—	9	—	nC
Gate-source charge	Q_{gs}		—	5	—	
Gate-drain ("miller") charge	Q_{gd}		—	4	—	

Source-Drain Ratings and Characteristics ($T_c = 25^\circ C$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Continuous drain reverse current (Note 1)	I_{DR}	—	—	—	2	A
Pulse drain reverse current (Note 1)	I_{DRP}	$t = 1 ms$	—	—	5	A
	I_{DRP}	$t = 100 \mu s$	—	—	8	A
Forward voltage (diode)	V_{DSF}	$I_{DR} = 2 A, V_{GS} = 0 V$	—	—	-1.5	V
Reverse recovery time	t_{rr}	$I_{DR} = 2 A, V_{GS} = 0 V$	—	1000	—	ns
Reverse recovery charge	Q_{rr}	$dI_{DR} / dt = 100 A / \mu s$	—	5.0	—	μC

Marking



Note 4: A line under a Lot No. identifies the indication of product Labels.

Not underlined: [[Pb]]/INCLUDES > MCV

Underlined: [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product. The RoHS is the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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