





CfXYf]b[ '-bZcf a Uh]cb'(Example)

DF9 : 9F98 'D#B'	D57 ?=B ; 7C89'	Auf_]b[ '	A=B=A I A' D57 ? 5 ; 9fidWgŁ	=BB9F'6CL' E I 5BH-HMfidWgŁ	C I H9F'75FHCB' E I 5BH-HMfidWgŁ	89@=J9FM'AC89'
YJGD20G10BQ	F1	YJGD20G10B	5000	10000	100000	13" reel

BACGfi8]Y%#8]Y&Ł 9'YWhf]WU'' 7 \UfUWhYf]gh]Wg'(T<sub>J</sub>=25 unless otherwise noted)

DufU a YhYf'	Gm a Vc''	7 cbX]h]cbg'	A]b'	Hmd'	AUI'	I b]hg'
<b>GhUh]W' DufU a YhYf'</b>						
Drain-Source Breakdown Voltage	BV <sub>DSS</sub>	V <sub>GS</sub> = 0V, I <sub>D</sub> =250μA	100			V
Zero Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =100V, V <sub>GS</sub> =0V			1	μA
Gate-Body Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> = ± 20V, V <sub>DS</sub> =0V			± 100	nA
Gate Threshold Voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> = V <sub>GS</sub> , I <sub>D</sub> =250μA	1.0	1.8	2.5	V
Static Drain-Source On-Resistance	R <sub>DS(on)</sub>	V <sub>GS</sub> = 10V, I <sub>D</sub> =20A		16	22	m
		V <sub>GS</sub> = 4.5V, I <sub>D</sub> =10A		18	27	
Diode Forward Voltage	V <sub>SD</sub>	I <sub>S</sub> =20A, V <sub>GS</sub> =0V		0.9	1.3	V
Gate Resistance	R <sub>g</sub>	f=1MHz		1.5		
<b>8mbU a ]W' DufU a YhYfg</b>						
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =25V, V <sub>GS</sub> =0V, f=1MHZ		1240		pF
Output Capacitance	C <sub>oss</sub>			740		
Reverse Transfer Capacitance	C <sub>rss</sub>			25		
<b>Gk]hW\]b[ ' DufU a YhYfg</b>						
Total Gate Charge	Q <sub>g</sub>	V <sub>GS</sub> =10V, V <sub>DS</sub> =50V, I <sub>D</sub> =20A		17		nC
Gate-Source Charge	Q <sub>gs</sub>			6		
Gate-Drain Charge	Q <sub>gd</sub>			3		
Reverse Recovery Chrage	Q <sub>rr</sub>	I <sub>F</sub> =20A, di/dt=100A/us		42		
Reverse Recovery Time	t <sub>rr</sub>			40		
Turn-on Delay Time	t <sub>D(on)</sub>	V <sub>GS</sub> =10V, V <sub>DD</sub> =50V, I <sub>D</sub> =20A R <sub>GEN</sub> =3.0		40		ns
Turn-on Rise Time	t <sub>r</sub>			12		
Turn-off Delay Time	t <sub>D(off)</sub>			55		
Turn-off fall Time	t <sub>f</sub>			16		

- A. Repetitive rating; pulse width limited by max. junction temperature.
- B. V<sub>DD</sub>=50V, R<sub>G</sub>=25 , L=2mH, I<sub>AS</sub>=9A.
- C. Pd is based on max. junction temperature, using junction-case thermal resistance.
- D. The value of R<sub>JA</sub> is measured with the device mounted on 1in2 FR-4 board with 2oz. Copper, in a still air environment with TA =25° C. The Power dissipation PDSM is based on R<sub>JA</sub> t<sub>10s</sub> and the maximum allowed junction temperature of 150° C. The value in any given application depends on the user's specific board design.



'BACGf18]Y%#8]Y&l`Hmd]WU`DYfZcf a UbWY`7 \UfUWhYf]gh]Wg

Figure1. Output C

**M> ; 8&\$ ; %\$6 E**

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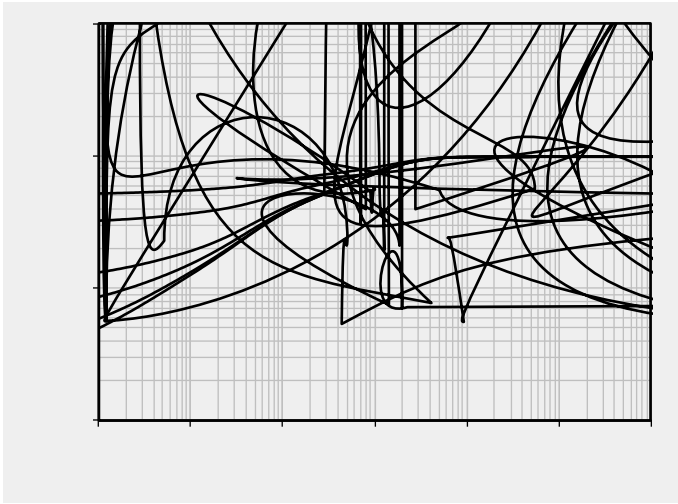


Figure 13. Maximum Transient Thermal Impedance

Figure 14. Safe Operation Area

**M> ; 8&\$ ; %\$6 E**



8]gW`U]a Yf`

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