



6GG, (KE)

.....D!7 \UbbY`9b\UbWY a Ybh`AcXY` :]Y`X`9ZZYWh`HfUbg]ghcf`

DfcXiWh`Gi a a Ufm`

V_{DS}	-60 V	
I_D	-0.19A	
$R_{DS(ON)}$ (at $V_{GS}=-10V$)	3.6 ohm	
$R_{DS(ON)}$ (at $V_{GS}=-4.5V$)	4.5 ohm	$T_A=100$

; YbYfU`8YgWf]dh]cb`

- Trench Power LV MOSFET technology
- Low $R_{DS(ON)}$
- Low Gate Charge
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free
- Part no. with suffix "Q" mea

CfXYf]b [`bzcf a Uh]cb`

5dd`]WUh]cbg`

~~Pa~~ Pa

DF9:9F98`D#B`	D57?:B` 7C89`	
BSS84WQ	F2	

	V_{DS}	-60	V
Gate-source Voltage	V_{GS}	± 20	V

Drain Current $T_A=25$ @ Steady State I_D -0.19 A



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9`YWhf]WU`7 \UfUWhYf]gh]Wg` (T_J=25 unless otherwise noted)

DUFU a YhYf`	Gma Vc`	7cbX]h]cbg`	A]b`	Hmd`	AUI`	I b]hg`
GhUh]W`DUFU a YhYf`						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} = 0V, I _D =-250μA	-60			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0V Stati=	A			

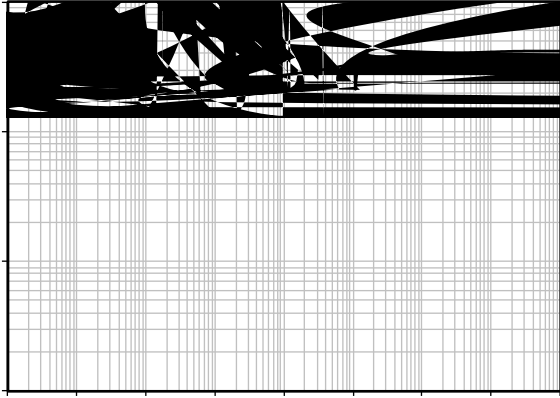


Figure 13. Maximum Transient Thermal Impedance

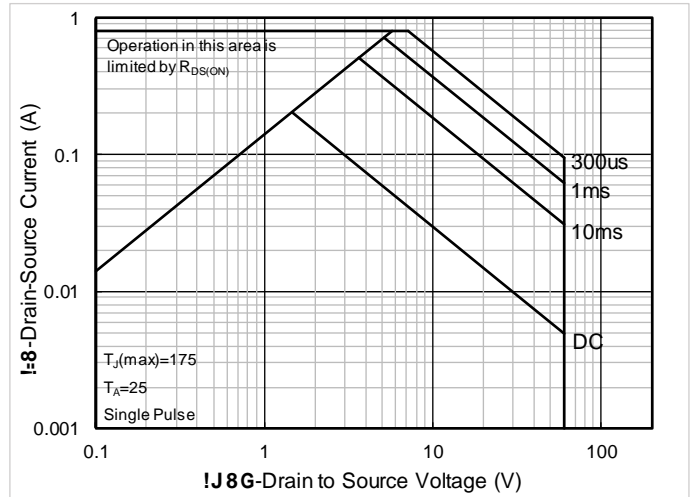


Figure 14. Safe Operation Area

v

'LVFODLPHU

7KH LQIRUPDWLRQ SGRF ~~Q~~ ~~M~~ ~~Q~~ ~~H~~ ~~G~~ LQ IR ~~R~~ ~~L~~ ~~V~~ ~~H~~ ~~D~~ ~~I~~ ~~H~~ ~~J~~ ~~K~~ ~~R~~ ~~H~~ ~~R~~ ~~Q~~ ~~O~~ ~~M~~ ~~L~~ ~~H~~ (OHFWURQLF 7HFKQRO
ULJKW WR PDNH FKDLQJH VRZL WKR XWS ~~K~~ ~~R~~ ~~L~~ ~~S~~ ~~L~~ ~~U~~ ~~R~~ ~~D~~ ~~G~~ ~~X~~ ~~I~~ ~~F~~ ~~R~~ ~~V~~ / RGLWSOD\HG KHUHLQ WURGLPVSUJRY
RU RWKHUZLVH

7KH SURGXFW OLVV ~~H~~ ~~C~~ ~~H~~ ~~H~~ ~~M~~ ~~R~~ ~~I~~ ~~E~~ ~~C~~ ~~H~~ ~~L~~ ~~X~~ ~~V~~ ~~S~~ ~~H~~ ~~Z~~ ~~H~~ ~~O~~ ~~H~~ ~~K~~ ~~F~~ ~~S~~ ~~X~~ ~~D~~ ~~R~~ ~~R~~ ~~P~~ ~~R~~ ~~M~~ ~~L~~ ~~Y~~ ~~G~~ ~~H~~ ~~V~~ ~~L~~ ~~J~~ ~~Q~~ ~~H~~ ~~G~~ ~~I~~ ~~R~~ ~~U~~ ~~X~~ ~~V~~ ~~H~~ ~~L~~ ~~Q~~ ~~P~~ ~~H~~ ~~G~~
VDYLQJ OLIHVX ~~V~~ ~~D~~ ~~L~~ ~~C~~ ~~D~~ ~~Q~~ ~~J~~ ~~M~~ ~~R~~ ~~H~~ ~~R~~ ~~U~~ ~~O~~ ~~D~~ ~~C~~ ~~A~~ ~~G~~ ~~Q~~ ~~H~~ ~~R~~ ~~Q~~ ~~X~~ ~~I~~ ~~P~~ ~~M~~ ~~V~~ ~~E~~ ~~R~~ ~~K~~ ~~U~~ ~~H~~ ~~V~~ ~~S~~ ~~E~~ ~~Q~~ ~~O~~ ~~L~~ ~~E~~ ~~L~~ ~~O~~ ~~R~~ ~~W~~ ~~\~~ ~~R~~ ~~O~~ ~~W~~ ~~G~~ ~~O~~ ~~P~~ ~~D~~ ~~U~~ ~~I~~ ~~F~~
P VXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDFWLRQ ~~S~~ ~~V~~ ~~O~~ ~~S~~ ~~F~~ ~~H~~ ~~U~~ ~~D~~ ~~G~~ ~~O~~ ~~V~~ ~~L~~ ~~Q~~ ~~U~~ ~~R~~ ~~A~~ ~~P~~ ~~D~~ ~~X~~ ~~S~~ ~~L~~ ~~S~~ ~~Q~~ ~~L~~ ~~S~~ ~~G~~ ~~H~~ ~~Y~~ ~~R~~ ~~U~~ ~~X~~ ~~D~~ ~~G~~ ~~L~~ ~~R~~ ~~V~~ ~~L~~ ~~F~~ ~~S~~ ~~O~~ ~~D~~ ~~H~~ ~~V~~ ~~E~~ ~~R~~ ~~H~~ ~~V~~ ~~L~~ ~~P~~ ~~L~~ ~~W~~ ~~R~~ ~~X~~
KW ~~V~~ ~~S~~ ~~Z~~ \DQJMLHRFRPRQVXOW \RXHU ~~Q~~ ~~H~~ ~~D~~ ~~O~~ ~~H~~ ~~W~~ ~~R~~ ~~\~~ ~~D~~ ~~C~~ ~~A~~ ~~M~~ ~~L~~ ~~R~~ ~~W~~ ~~D~~ ~~O~~ ~~E~~ ~~W~~ ~~K~~ ~~H~~ ~~U~~ ~~D~~