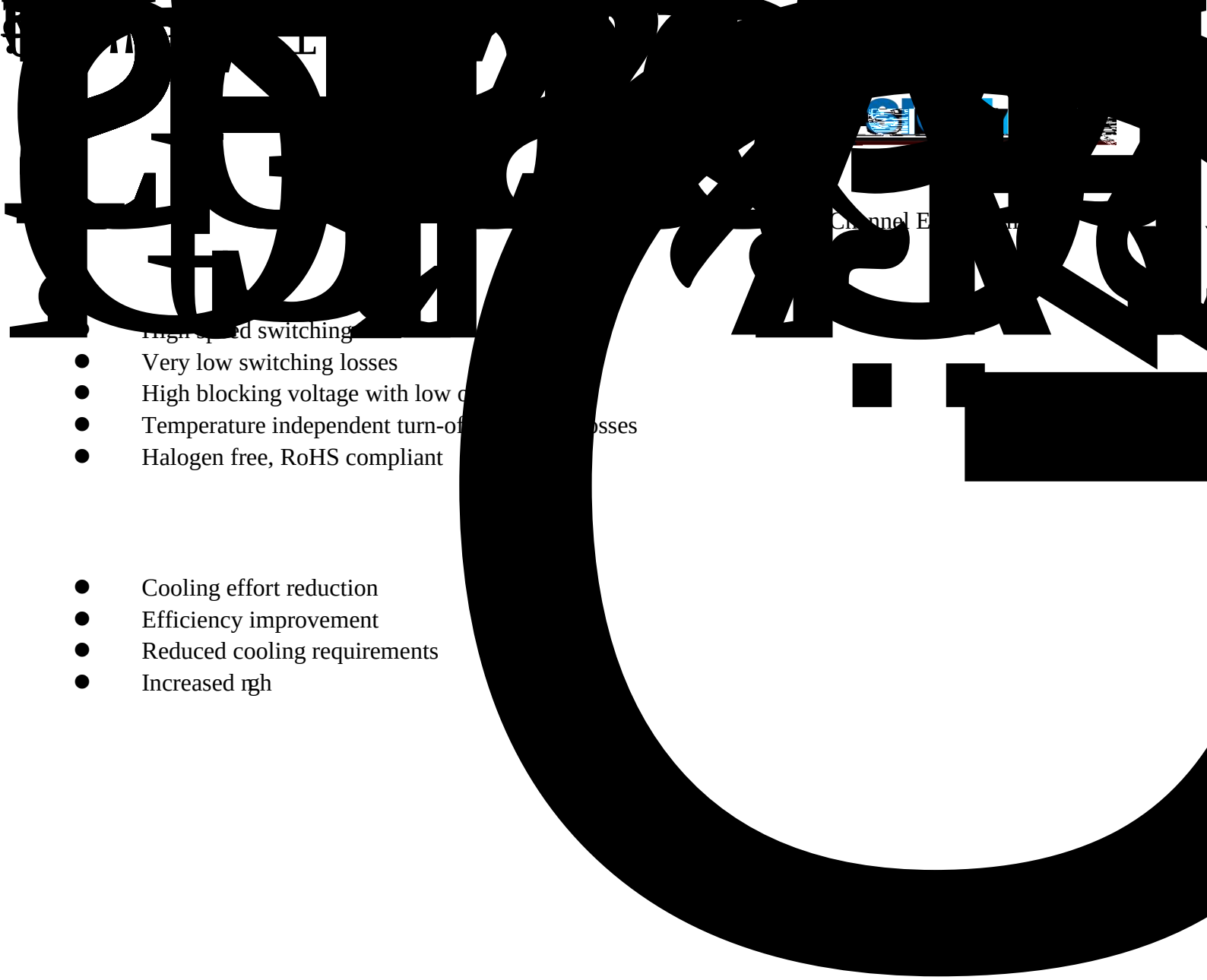


Channel E

- High speed switching
- Very low switching losses
- High blocking voltage with low c
- Temperature independent turn-of osses
- Halogen free, RoHS compliant

- Cooling effort reduction
- Efficiency improvement
- Reduced cooling requirements
- Increased rgh

(Tc = 25°C unless otherwl

Q_{gs}	Gate source charge	-	24	-	nC	V_{DS} = 800V, V_{GS} = -4V/+15V, I_D = 20A

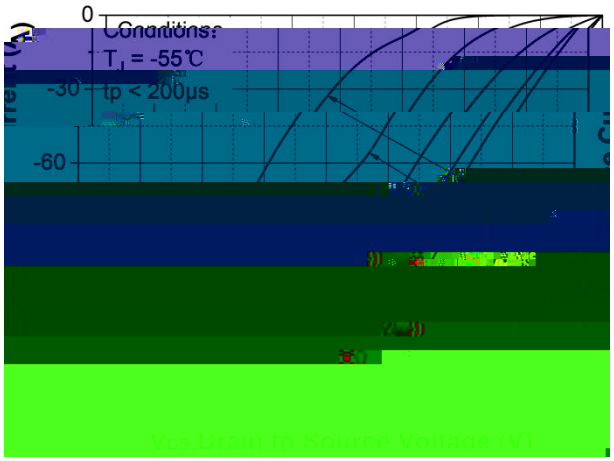


Figure 13. 3rd quadrant characteristic at T_J = -55 ºC

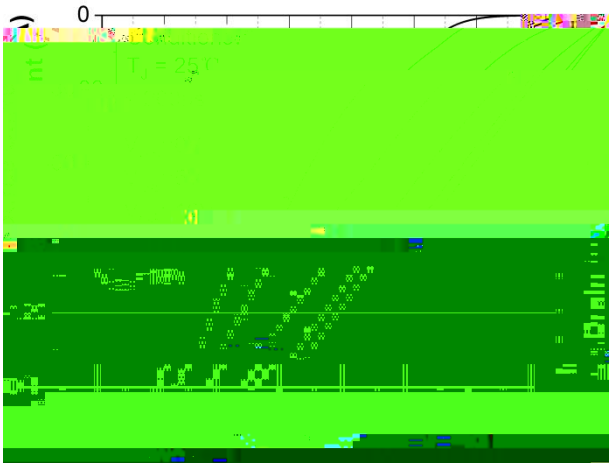


Figure 14. 3rd quadrant characteristic at T_J = 25 ºC

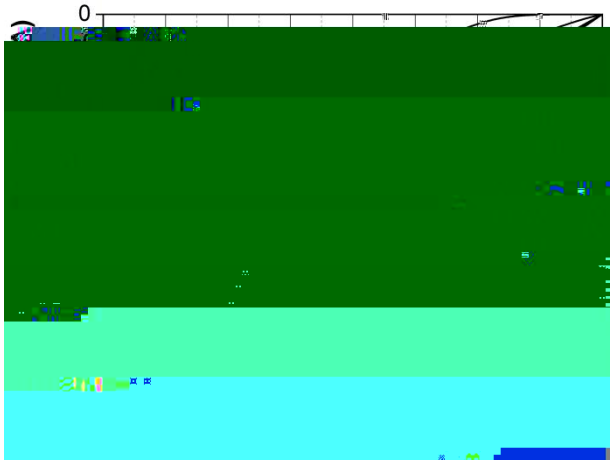


Figure 15. 3rd quadrant characteristic at T_J = 175 ºC

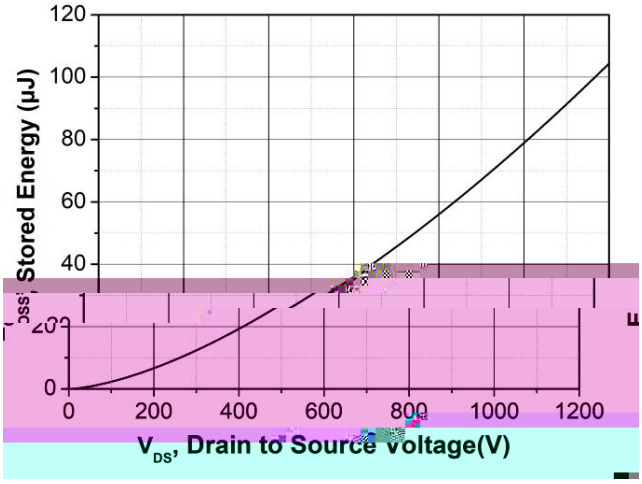


Figure 16. Output capacitor stored energy

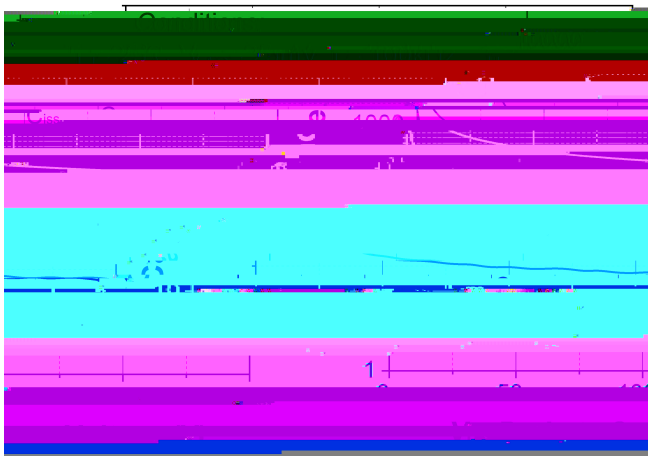


Figure 17. Capacitances vs. drain-source voltage (0 - 200V)

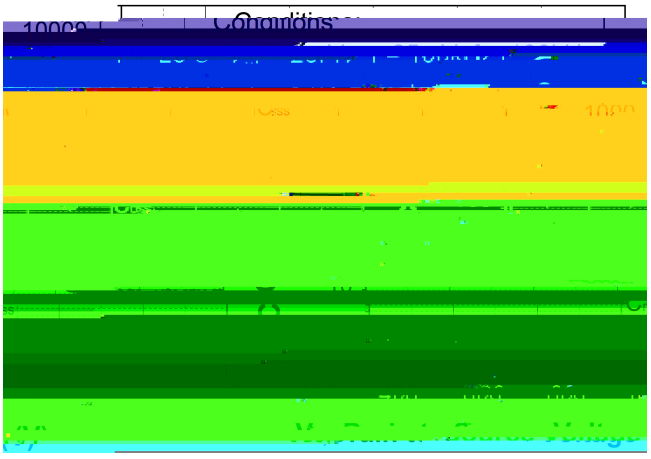


Figure 18. Capacitances vs. drain-source voltage (0 - 1200V)

Die size W x L	4.134 * 3.74	mm	
Gate pad size W x L	0.8 * 0.8	mm	
Die thickness	200	μm	
Top side source gate metallization	4	μm	Ti/Al
Back side drain metallization	1	μm	Ti/Ni/Ag

Symbol	Dimension / mm
B	3.740
b1	0.800
b2	0.900
b3	0.950
b4	0.900
A	4.134
a1	0.800
a2	3.434

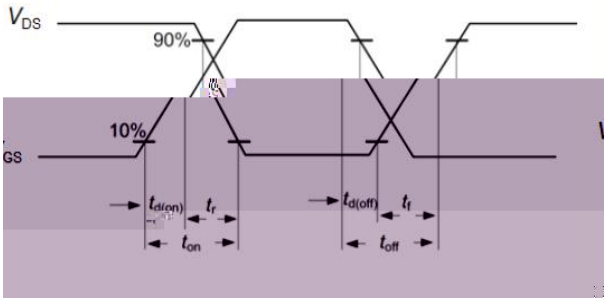


Figure A. Definition of switching times

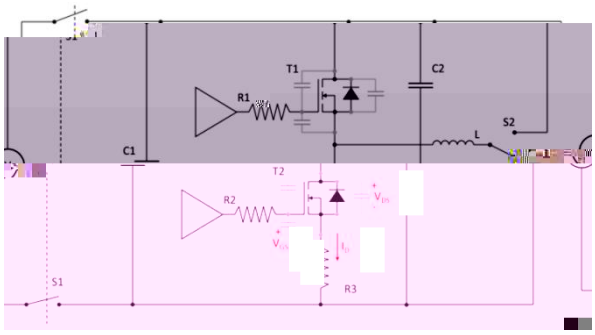


Figure B. Dynamic test circuit

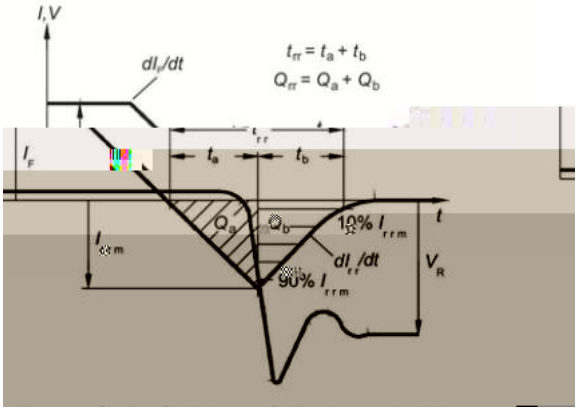


Figure C. Definition of body diode switching characteristics

		——	——
		——	——
		——	——
		——	——
			——

1.
The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2011/65/ EC (RoHS2), as implemented January 2, 2013.

2.
REACh substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, please contact a Sichain representative to insure you get the most up-to-date REACh SVHC Declaration. REACh banned substance information (REACh Article 67) is also available upon request.

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6. Due to technical requirements products may contain dangerous substances. For information on the types in question please contact Sichain office.

Datasheet