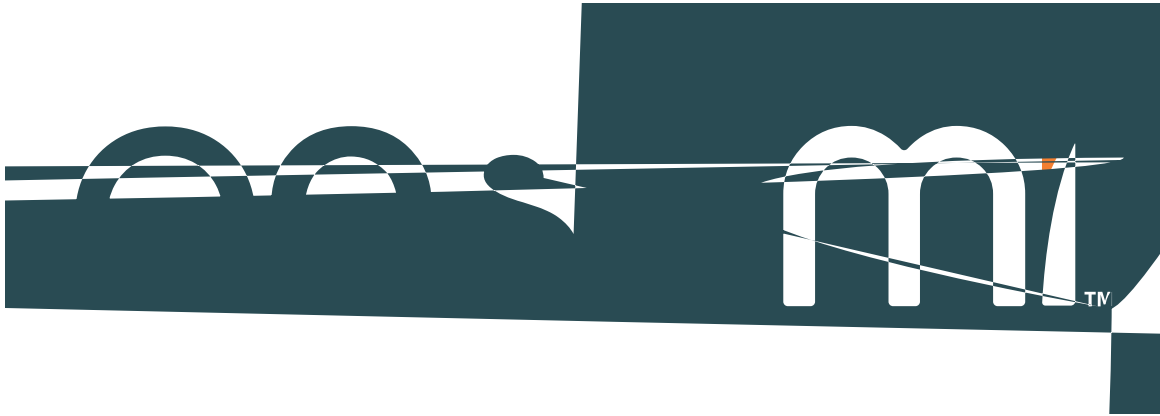
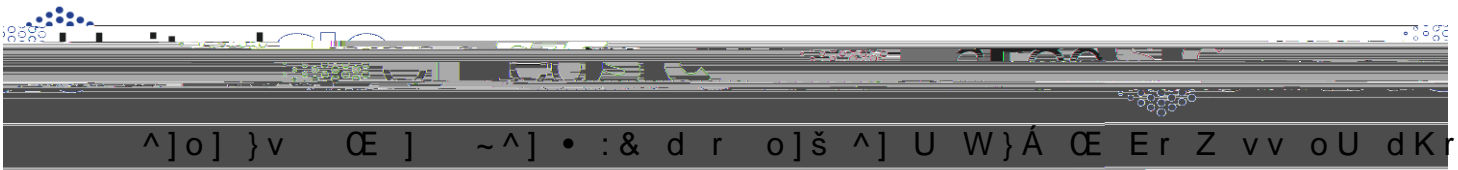


%do ÷ C r %oo f





Description

Features

- Š
- Š Voltage controlled
- Š
- Š
- Š Low gate charge
- Š

Typical Applications

- Š Over current protection circuits
- Š DC-AC inverters
- Š Switch mode power supplies
- Š Power factor correction modules
- Š Motor drives

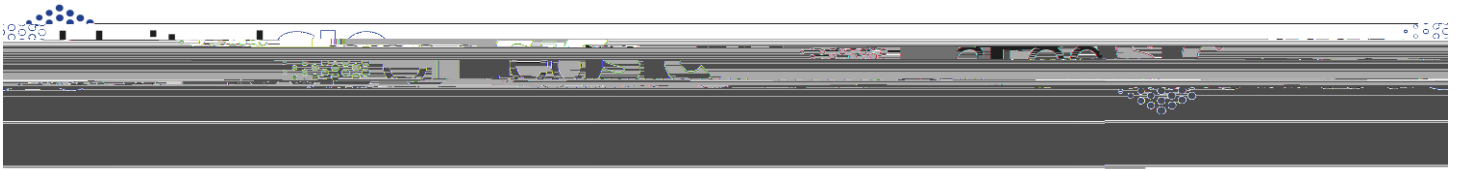


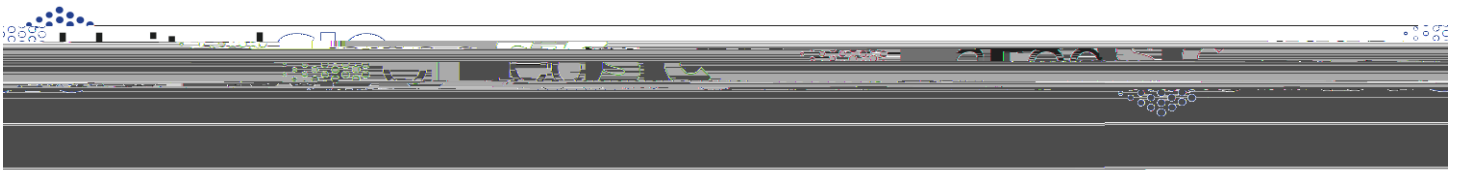


^]o] }v Œ] ~^] • :& d r o]š ^] U W}Á Œ Er Z vv oU dKrîðóri
Datasheet

Electrical Characteristics (T_J = +25°C unless otherwise specified)







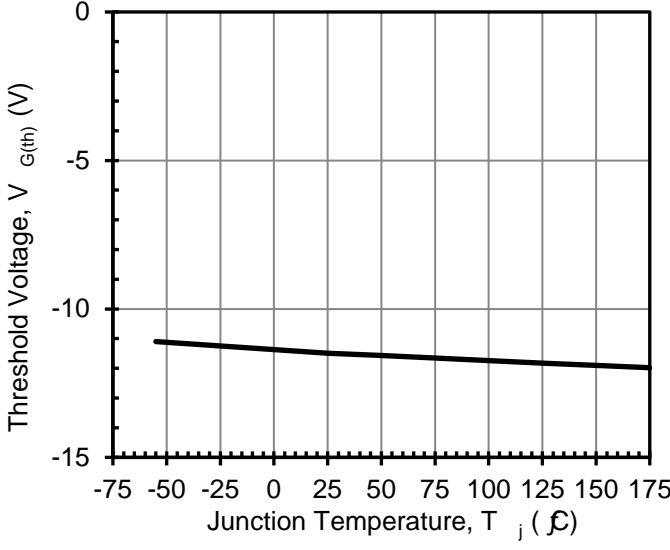
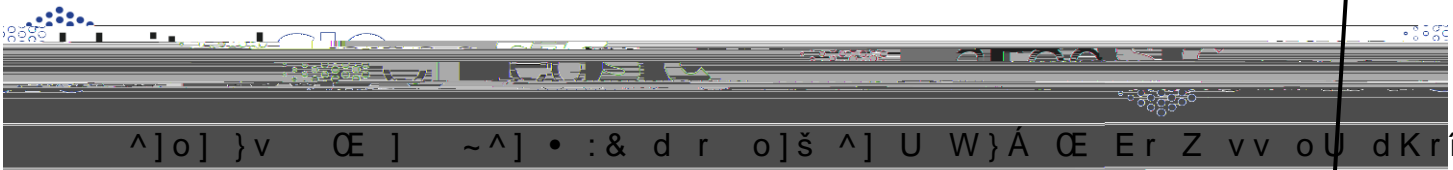


Figure 9 Threshold voltage vs. T_j
at $V_{DS} = 5V$ and $I_D = 70mA$

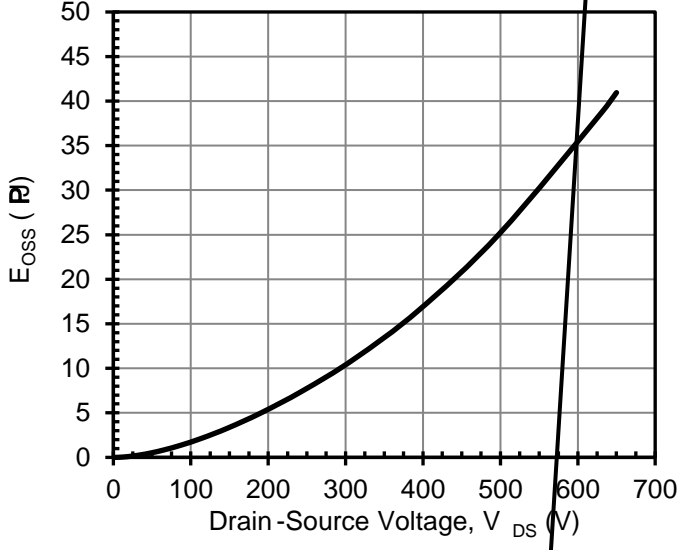


Figure 10 Typical stored energy in C_{oss}
at $V_{GS} = -20V$

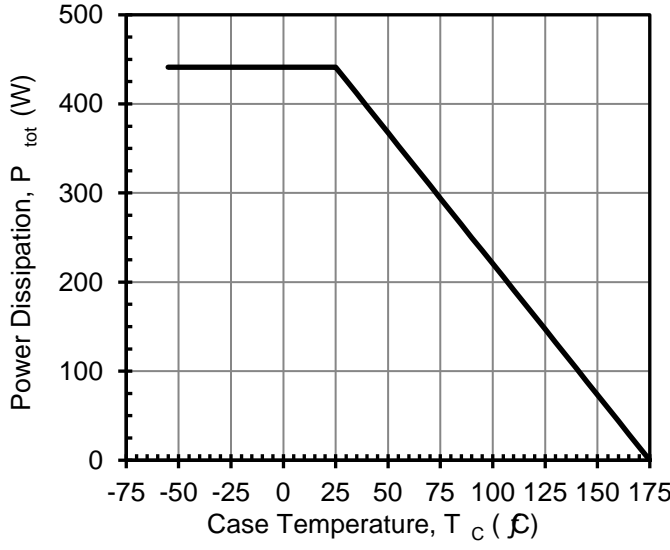


Figure 11 Total power Dissipation

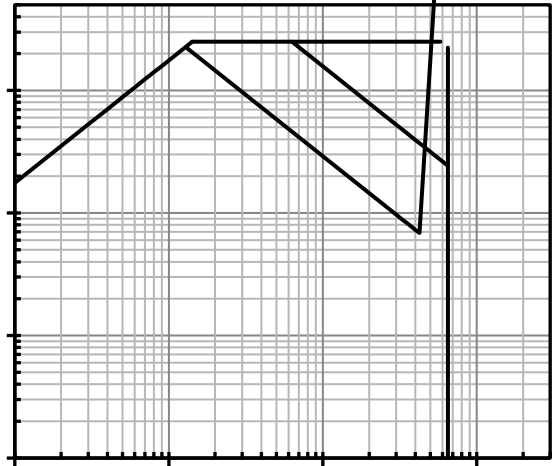
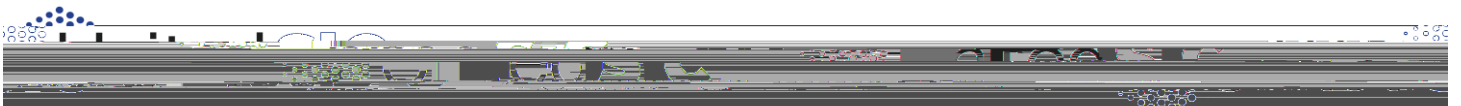


Figure 12 Safe operation area
 $T_c = 25^\circ C$, Parameter t_p



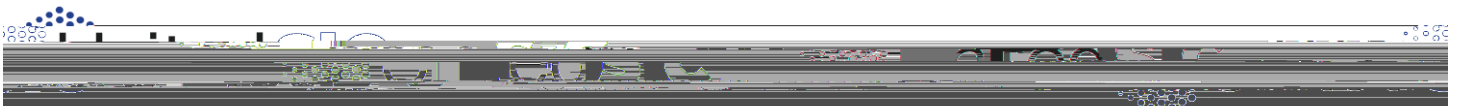
^]o] }v Œ] ~^] • :& d r o]š ^] U W}Á Œ Er Z vv oU dKřřđóřřš



Figure 17 Clamped inductive switching energy vs. drain current at $T_j = 150^\circ\text{C}$

Figure 18 Clamped inductive switching energy vs. gate resistor R_g

Figure 19 Clamped inductive switching energy



Disclaimer

United Silicon Carbide, Inc. reserves the right to change or modify any of the products and their inherent physical technical specifications without prior notice. United Silicon Carbide, Inc. assumes no responsibility or liability for errors or inaccuracies within.

Information on all products and contained herein is intended for description only. No license, express or implied intellectual property rights is granted within this document.

United Silicon Carbide, Inc. assumes no liability whatsoever relating to the choice, selection or use of the United Silicon Carbide, Inc. products and services described herein.



TO-247-3L PACKA OUTLINE, PART MARK AND TUBE SPECIFICAT

PACKAGE OUTLINE

PART NUMBER

XYWWLLL

SYM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.185	0.209	4.699	5.309
A1	0.087	0.102	2.21	2.61
A2	0.059	0.098	1.499	2.489
b	0.039	0.055	0.991	1.397
b2	0.065	0.094	1.651	2.388
b4	0.102	0.135	2.591	3.429
c	0.015	0.035	0.381	0.889
D	0.819	0.845	20.803	21.463
D1	0.515	-	13.081	-
D2	0.02	0.053	0.508	1.346
E	0.61	0.64	15.494	16.256
e	0.214 BSC		5.44 BSC	
E1	0.53	-	13.462	-
E2	0.135	0.157	3.429	3.988
L	0.78	0.8	19.812	20.32
L1	-	0.177	-	4.496
ØP	0.14	0.144	3.556	3.658
ØP1	0.278	0.291	7.061	7.391
Q	0.212	0.244	5.385	6.198
S	0.243 BSC		6.17 BSC	



TO-247-3L PACKA OUTLINE, PART MARK AND TUBE SPECIFICAT

PART MARKING

PART NUMBER



XYYYWW LL

PARTNUMBER = REFER TO
DS_PNDECODER OR DETAILS

X = ASSEMBLY SITE

YY = YEAR

WW = WORK WEEK

LLL = LOT ID

PACKING TYPE

ANTI-STATIC TUBE

QUANTITY /TUBE : 30 UNITS

DISCLAIMER

United Silicon Carbide, Inc. reserves the right to change or modify any of the products and their inherent physical and technical specifications without prior notice. United Silicon Carbide, Inc. assumes no responsibility or liability for any errors or inaccuracies within.

Information on all products and contained herein is intended for description only. No license, express or implied, to any intellectual property rights is granted within this document.

United Silicon Carbide, Inc. assumes no liability whatsoever relating to the choice, selection or use of the United Silicon Carbide, Inc. products and services described herein.

onsemi

