

Silicon Carbide (SiC) Cascode JFET – EliteSiC, Power N-Channel, TO247-4, 750 V, 44 mohm

SiC JFET w/ Si MOSFET

UJ4C075044K4S

Description

The UJ4C075044K4S is a 750 V, 44 m Ω G4 SiC FET. It is based on a unique 'cascode' circuit configuration, in which a normally-on SiC JFET is co-packaged with a Si MOSFET to produce a normally-off SiC FET device. The device's standard gate-drive characteristics allows for a true "drop-in replacement" to Si IGBTs, Si FETs, SiC MOSFETs or Si superjunction devices. Available in the TO247-4 package, this device exhibits ultra-low gate charge and exceptional reverse recovery characteristics, making it ideal for switching inductive loads and any application requiring standard gate drive.

Features

- On-Resistance $R_{DS(on)}$: 44 m Ω (typ)
- Operating Temperature: 175 °C (Max)
- Excellent Reverse Recovery: $Q_{rr} = 72 \text{ nC}$
- Low Body Diode V_{FSD}: 1.2 V
- Low Gate Charge : $Q_G = 37.8 \text{ nC}$
- Threshold Voltage V_{G(th)}: 4.8 V (typ) Allowing 0 to 15 V Drive
- Low Intrinsic Capacitance
- ESD Protected: HBM Class 2 and CDM Class C3
- TO247-4 Package for Faster Switching, Clean Gate Waveforms
- This Device is Pb-Free, Halogen Free and is RoHS Compliant

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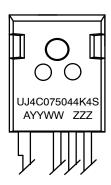
Typical Applications

- EV Charging
- PV Inverters
- Switch Mode Power Supplies
- Power Factor Correction Modules
- Motor Drives
- · Induction Heating



TO247-4 CASE 340AN

MARKING DIAGRAM

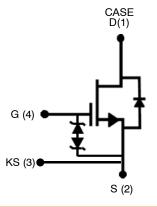


UJ4C075044K4S= Specific Device Number

A = Assembly Location

YY = Year WW = Work Week ZZZ = Lot ID

PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information on page 11 of this data sheet.

MAXIMUM RATINGS

Symbol	Parameter	Test Conditions	Value	Unit
V_{DS}	Drain-Source Voltage		750	V
V _{GS}	Gate-Source Voltage	DC	-20 to +20	V
		AC (f > 1 Hz)	-25 to +25	V
I _D	Continuous Drain Current (Note 1)	T _C = 25 °C	37.4	Α
		T _C = 100 °C	27.6	Α
I _{DM}	Pulsed Drain Current (Note 2)	T _C = 25 °C	110	Α
E _{AS}	Single Pulsed Avalanche Energy (Note 3)	L = 15 mH, I _{AS} = 2.1 A	33	mJ
dv/dt	SiC FET dv/dt Ruggedness	V _{DS} ≤ 500 V	200	V/ns
P _{tot}	Power Dissipation	T _C = 25 °C	203	W
T _{J,max}	Maximum Junction Temperature		175	°C
T _J , T _{STG}	Operating and Storage Temperature		-55 to 175	°C
TL	Max. Lead Temperature for Soldering, 1/8" from Case for 5 Seconds		250	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

- Limited by T_{J,max}
 Pulse width t_p limited by T_{J,max}
 Starting T_J = 25 °C

THERMAL CHARACTERISTICS

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
$R_{\theta JC}$	Thermal Resistance, Junction-to-Case		-	0.57	0.74	°C/W

ELECTRICAL CHARACTERISTICS ($T_J = +25$ °C unless otherwise specified)

Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
TYPICAL	PERFORMANCE – STATIC						
BV _{DS}	Drain-Source Breakdown Voltage	$V_{GS} = 0 \text{ V}, I_D = 1 \text{ mA}$		750	_	-	V
I _{DSS}	Total Drain Leakage Current	V _{DS} = 750 V, V _{GS} = 0 V, T _J = 25 °C		-	1.5	15	μΑ
		$V_{DS} = 750 \text{ V}, V_{GS} = 0$	V, T _J = 175°C	-	15	-	1
I _{GSS}	Total Gate Leakage Current	V _{DS} = 0 V , T _J = 25 °C V _{GS =} -20 V / + 20 V		-	6	±20	μΑ
R _{DS(on)}	Drain-Source On-resistance	V _{GS} = 12 V, I _D = 25 A	T _J = 25 °C	-	44	56	mΩ
			T _J = 125 °C	-	75	-	1
			T _J = 175 °C	-	101	-	
V _{G(th)}	Gate Threshold Voltage	V _{DS} = 5 V, I _D = 10 mA		4	4.8	6	V
R_{G}	Gate Resistance	f = 1 MHz, open drain		-	4.5	-	Ω
TYPICAL	PERFORMANCE – REVERSE DIODE						
IS	Diode Continuous Forward Current (Note 1)	T _C = 25 °C		-	_	37.4	Α
I _{S,pulse}	Diode Pulse Current (Note 2)	T _C = 25 °C		-	-	110	Α
V _{FSD}	Forward Voltage	V _{GS} = 0 V, I _S = 10 A, 7	「J = 25 °C	-	1.2	1.36	V
		V _{GS} = 0 V, I _S = 10 A, T _J = 175 °C		_	1.42	_	
Q _{rr}	Reverse Recovery Charge	V _R = 400 V, I _S = 25 A,		-	72	-	nC
t _{rr}	Reverse Recovery Time	V _{GS} = 0 V, R _{G_EXT} = 5 di/dt = 1200 A/us. T _I =	o 12, 25 °C	_	12	_	ns

ELECTRICAL CHARACTERISTICS ($T_J = +25 \, ^{\circ}\text{C}$ unless otherwise specified) (continued)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
TYPICAL I	PERFORMANCE – REVERSE DIODE (CONTIN	UED)				
Q _{rr}	Reverse Recovery Charge	$V_R = 400 \text{ V}, I_S = 25 \text{ A},$	_	93	_	nC
t _{rr}	Reverse Recovery Time	$V_{GS} = 0 \text{ V, R}_{G \text{ EXT}} = 5 \Omega,$ di/dt = 1200 A/μs, T _J = 150 °C	_	12	_	ns
TYPICAL I	PERFORMANCE - DYNAMIC	1 2				
C _{iss}	Input Capacitance	V _{DS} = 400 V, V _{GS} = 0 V,	_	1400	_	pF
C _{oss}	Output Capacitance	f = 100 kHz	_	55	_	
C _{rss}	Reverse Transfer Capacitance		_	2.5	_	
C _{oss(er)}	Effective Output Capacitance, Energy Related	V _{DS} = 0 V to 400 V,	_	66.4	_	pF
C _{oss(tr)}	Effective Output Capacitance, Time Related	V _{GS} = 0 V	-	131	_	pF
E _{oss}	C _{OSS} Stored Energy	V _{DS} = 400 V, V _{GS} = 0 V	-	5.3	_	μJ
Q_{G}	Total Gate Charge	V _{DS} = 400 V, I _D = 25 A,	-	37.8	_	nC
Q_{GD}	Gate-Drain Charge	V _{GS} = 0 V to 15 V	_	8	_	
Q _{GS}	Gate-Source Charge		_	11.8	-	
t _{d(on)}	Turn-on Delay Time	Notes 4 and 5 $V_{DS} = 400 \text{ V, } I_D = 25 \text{ A,} \\ \text{Gate Driver} = 0 \text{ V, to } +15 \text{ V,} \\ \text{Turn-on } R_{G,EXT} = 1 \Omega, \\ \text{Turn-off } R_{G,EXT} = 5 \Omega, \\ \text{Inductive Load,} \\ \text{FWD: same device with} \\ V_{GS} = 0 \text{ V and } R_G = 5 \Omega, \\ \text{RC snubber: } R_S = 15 \Omega \text{ and } \\ C_S = 68 \text{ pF, } T_J = 25 \text{ °C} \\ \end{aligned}$	_	12	_	ns
t _r	Rise Time		-	20	_	
t _{d(off)}	Turn-off Delay Time		_	43	_	
t _f	Fall Time		_	7	-	
E _{ON}	Turn-on Energy Including R _S Energy		_	131	_	μJ
E _{OFF}	Turn-off Energy Including R _S Energy		_	15	_	
E _{TOTAL}	Total Switching Energy		_	146	_	
E _{RS_ON}	Snubber R _S Energy During Turn-on		-	1.7	_	
E _{RS_OFF}	Snubber R _S Energy During Turn-off		-	4.9	_	
t _{d(on)}	Turn-on Delay Time	Notes 4 and 5	-	11	_	ns
t _r	Rise Time	V _{DS} = 400 V, I _D = 25 A, Gate Driver = 0 V, to +15 V,	_	20	_	
t _{d(off)}	Turn-off Delay Time	Turn-on $R_{G,EXT} = 1 \Omega$,	-	46	_	
t _f	Fall Time	Turn-off $R_{G,EXT} = 5 \Omega$, Inductive Load,	_	7	_	
E _{ON}	Turn-on Energy Including R _S Energy	FWD: same device with $V_{GS} = 0 \text{ V}$ and $R_{G} = 5 \Omega$,	_	140	_	μJ
E _{OFF}	Turn-off Energy Including R _S Energy	RC snubber: $R_S = 15 \Omega$ and	-	24	_	
E _{TOTAL}	Total Switching Energy	$C_S = 68 \text{ pF, } T_J = 150 ^{\circ}\text{C}$	-	164	_	
E _{RS_ON}	Snubber R _S Energy During Turn-on		-	1.6	_	1
E _{RS_OFF}	Snubber R _S Energy During Turn-off		-	4.1	-	
t _{d(on)}	Turn-on Delay Time	Notes 6	_	12	_	ns
t _r	Rise Time	V _{DS} = 400 V, I _D = 25 A, Gate Driver = 0 V, to +15 V,	-	18	_	
t _{d(off)}	Turn-off Delay Time	Turn-on $R_{G EXT} = 1 \Omega$,	-	44	_	
t _f	Fall Time	Turn-off $R_{G,EXT} = 5 \Omega$, Inductive Load,	-	6	_	
E _{ON}	Turn-on Energy Including R _S Energy	FWD: UJ3D06512TS RC snubber: $R_S = 15 \Omega$ and	-	104	_	μJ
E _{OFF}	Turn-off Energy Including R _S Energy	$C_S = 68 \text{ pF, } T_J = 25 \text{ °C}$	_	20	_	
E _{TOTAL}	Total Switching Energy		_	124	_	
E _{RS_ON}	Snubber R _S Energy During Turn-on		_	1	_	
E _{RS_OFF}	Snubber R _S Energy During Turn-off		_	5	_	

ELECTRICAL CHARACTERISTICS ($T_J = +25$ °C unless otherwise specified) (continued)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
TYPICAL	PERFORMANCE – DYNAMIC	•				
t _{d(on)}	Turn-on Delay Time	Notes 6	-	12	-	ns
t _r	Rise Time	V _{DS} = 400 V, I _D = 25 A, Gate Driver = 0 V, to +15 V,	-	18	-	
t _{d(off)}	Turn-off Delay Time	Turn off $R_{G,EXT} = 1 \Omega$,	-	45	-	
t _f	Fall Time	Turn-off $R_{G,EXT} = 5 \Omega$, Inductive Load,	-	6	-	
E _{ON}	Turn-on Energy Including R _S Energy	FWD: UJ3D06512TS RC snubber: $R_S = 15 \Omega$ and	-	122	-	μJ
E _{OFF}	Turn-off Energy Including R _S Energy	C _S = 68 pF, T _J = 150 °C	-	25	-	
E _{TOTAL}	Total Switching Energy		-	147	-	
E _{RS_ON}	Snubber R _S Energy During Turn-on		-	1	-	
E _{RS_OFF}	Snubber R _S Energy During Turn-off		-	6	-	1

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

4. Measured with the half-bridge mode switching test circuit in Figure 35.

- 5. In this datasheet, all the switching energies (turn-on energy, turn-off energy and total energy) presented in the tables and Figures include the device RC snubber energy losses.

 6. Measured with the switching test circuit in Figure 36.

TYPICAL CHARACTERISTICS

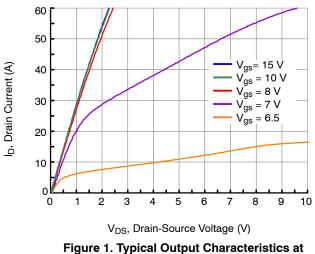


Figure 1. Typical Output Characteristics at $T_J = -55$ °C, $t_p < 250 \mu s$

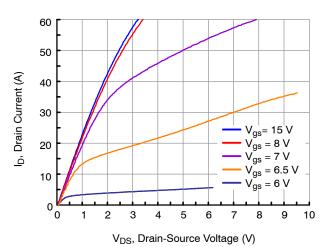


Figure 2. Typical Output Characteristics at $T_J = 25$ °C, $t_p < 250 \mu s$

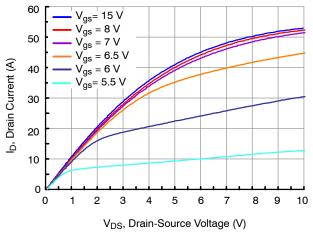


Figure 3. Typical Output Characteristics at $$T_{J}=175~^{\circ}\text{C},\,t_{p}<250~\mu\text{s}$$

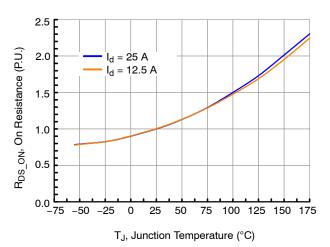


Figure 4. Normalized On-Resistance vs. Temperature at $V_{GS} = 12 \text{ V}$

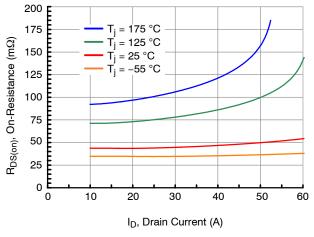


Figure 5. Typical Drain-Source On-Resistances at V_{GS} = 12 V

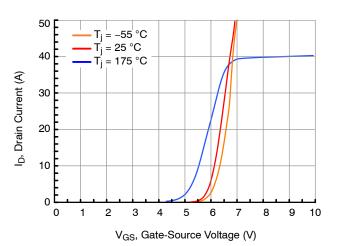


Figure 6. Typical Transfer Characteristics at $V_{DS} = 5 \text{ V}$

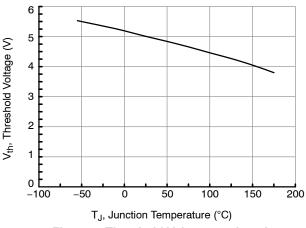


Figure 7. Threshold Voltage vs. Junction Temperature at $V_{DS} = 5 \ V$ and $I_D = 10 \ mA$

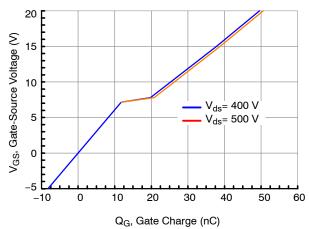


Figure 8. Typical Gate Charge at $I_D = 25 A$

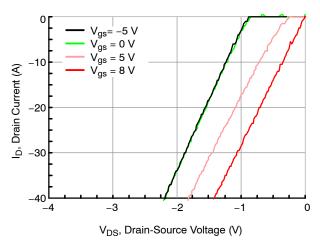


Figure 9. 3^{rd} Quadrant Characteristics at $T_J = -55$ °C

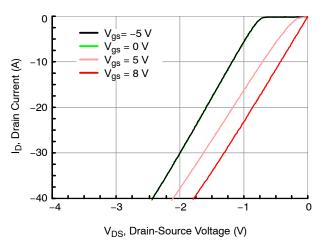


Figure 10. 3^{rd} Quadrant Characteristics at $T_J = 25$ °C

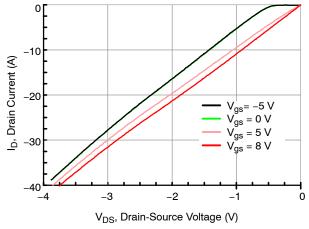


Figure 11. 3^{rd} Quadrant Characteristics at $T_J = 175$ °C

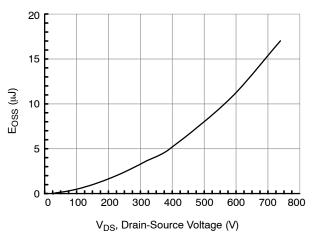


Figure 12. Typical Stored Energy in C_{OSS} at V_{GS} = 0 V

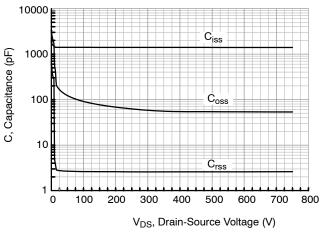


Figure 13. Typical Capacitances at f = 100 kHz and V_{GS} = 0 V

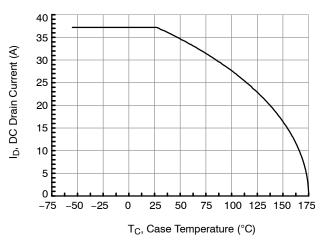


Figure 14. DC Drain Current Derating

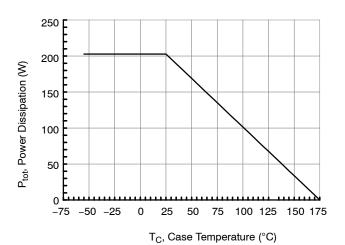


Figure 15. Total Power Dissipation

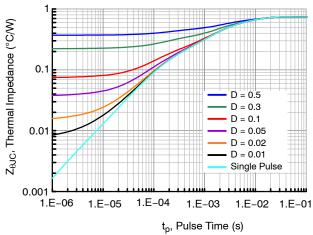


Figure 16. Maximum Transient Thermal Impedance

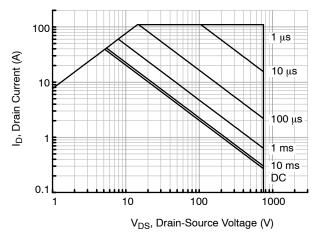


Figure 17. Safe Operation Area at T_C = 25 °C, D = 0, Parameter t_p

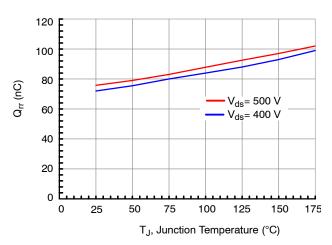


Figure 18. Reverse Recovery Charge $\mathbf{Q}_{\rm rr}$ vs. Junction Temperature

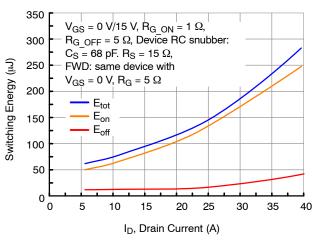


Figure 19. Clamped Inductive Switching Energy vs. Drain Current at V_{DS} = 400 V and T_J = 25 °C

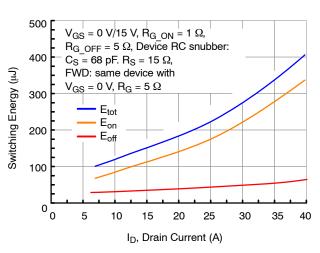


Figure 20. Clamped Inductive Switching Energy vs.Drain Current at V_{DS} = 500 V, and T_{J} = 25 °C

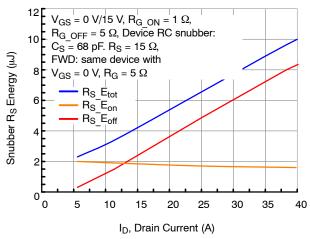


Figure 21. RC Snubber Energy Loss vs. Drain Current at $V_{DS} = 400 \text{ V}$ and $T_J = 25 \,^{\circ}\text{C}$

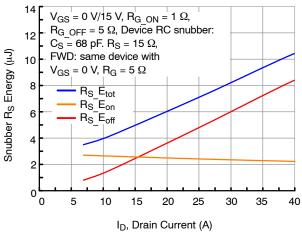


Figure 22. RC Snubber Energy Losses vs. Drain Current at $V_{DS} = 500 \text{ V}$ and $T_J = 25 \,^{\circ}\text{C}$

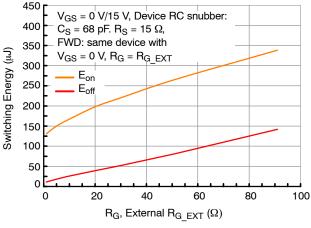


Figure 23. Clamped Inductive Switching Energies vs. R_{G} EXT at V_{DS} = 400 V, I_{D} = 25 A and T_{J} = 25 °C

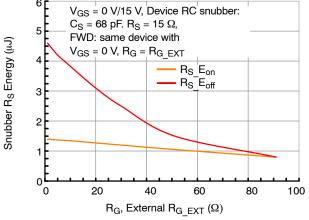


Figure 24. RC Snubber Energy Losses vs. $R_{G\ EXT}$ at V_{DS} = 400 V, I_{D} = 25 A and T_{J} = 25 °C

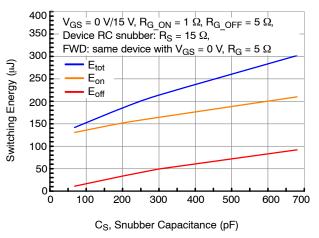


Figure 25. Clamped Inductive Switching Energies vs. Snubber Capacitance C_S at V_{DS} = 400 V, I_D = 25 A and T_J = 25 °C

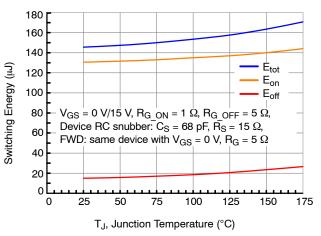


Figure 27. Clamped Inductive Switching Energy vs. Junction Temperature at V_{DS} = 400 V and I_{D} = 25 A

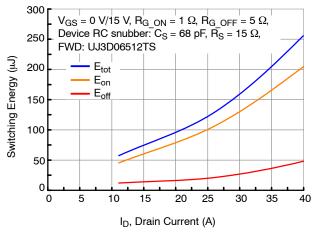


Figure 29. Clamped Inductive Switching Energy vs. Drain Current at V_{DS} = 400 V and T_J = 25 °C

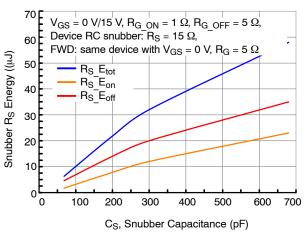


Figure 26. RC Snubber Energy Losses vs. Snubber Capacitance C_S at V_{DS} = 400 V, I_D = 25 A and T_J = 25 °C

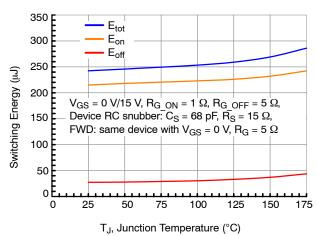


Figure 28. Clamped Inductive Switching Energy vs. Junction Temperature at V_{DS} = 500 V, I_{D} = 25 A

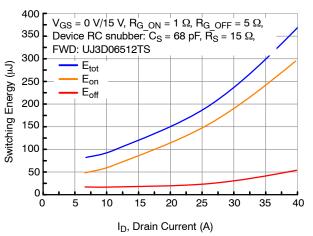


Figure 30. Clamped Inductive Switching Energy vs. Drain Current at V_{DS} = 500 V and T_J = 25 °C

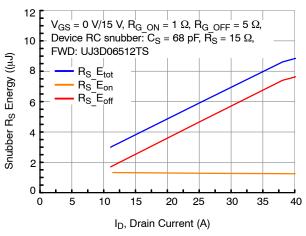


Figure 31. RC Snubber Energy Losses vs. Drain Current at $V_{DS} = 400 \text{ V}$ and $T_{J} = 25 \,^{\circ}\text{C}$

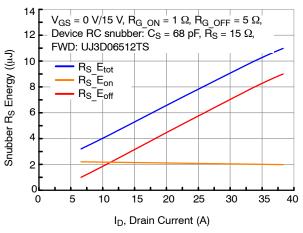


Figure 32. RC Snubber Energy Losses vs. Drain Current at $V_{DS} = 500 \text{ V}$ and $T_J = 25 \,^{\circ}\text{C}$

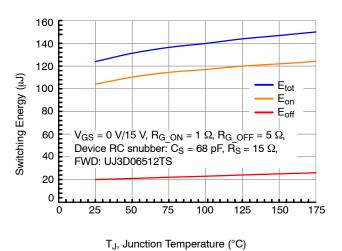


Figure 33. Clamped Inductive Switching Energy vs. Junction Temperature at V_{DS} = 400 V and I_{D} = 25 A

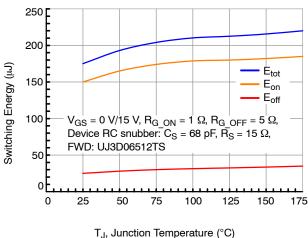


Figure 34. Clamped Inductive Switching Energy vs. Junction Temperature at V_{DS} = 500 V and I_{D} = 25 A

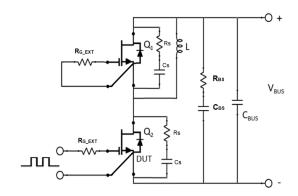


Figure 35. Schematic of the Half-Bridge Mode Switching Test Circuit. Note, a Bus RC Snubber ($R_{BS}=5\Omega$, $C_{BS}=100$ nF) is Used to Reduce the Power Loop High Frequency Oscillations.

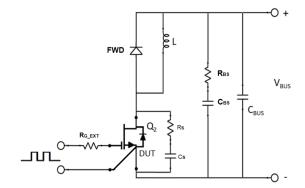


Figure 36. Schematic of the Chopper Mode Switching Test Circuit. Note, a Bus RC Snubber ($R_{BS} = 5\Omega$, $C_{BS} = 100$ nF) is Used to Reduce the Power Loop High Frequency Oscillations.

APPLICATIONS INFORMATION

SiC FETs are enhancement-mode power switches formed by a high-voltage SiC depletion-mode JFET and a low-voltage silicon MOSFET connected in series. The silicon MOSFET serves as the control unit while the SiC JFET provides high voltage blocking in the off state. This combination of devices in a single package provides compatibility with standard gate drivers and offers superior performance in terms of low on-resistance ($R_{DS(on)}$), output capacitance (C_{oss}), gate charge (Q_G), and reverse recovery charge (Q_{rr}) leading to low conduction and switching losses. The SiC FETs also provide excellent reverse conduction capability eliminating the need for an external anti-parallel diode.

Like other high performance power switches, proper PCB layout design to minimize circuit parasitics is strongly recommended due to the high dv/dt and di/dt rates. An external gate resistor is recommended when the FET is

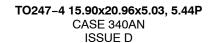
working in the diode mode in order to achieve the optimum reverse recovery performance. For more information on SiC FET operation, see www.onsemi.com.

A snubber circuit with a small $R_{(G)}$, or gate resistor, provides better EMI suppression with higher efficiency compared to using a high $R_{(G)}$ value. There is no extra gate delay time when using the snubber circuitry, and a small $R_{(G)}$ will better control both the turn-off $V_{(DS)}$ peak spike and ringing duration, while a high $R_{(G)}$ will damp the peak spike but result in a longer delay time. In addition, the total switching loss when using a snubber circuit is less than using high $R_{(G)}$, while greatly reducing $E_{(OFF)}$ from mid-to-full load range with only a small increase in $E_{(ON)}$. Efficiency will therefore improve with higher load current. For more information on how a snubber circuit will improve overall system performance, visit the **onsemi** website at www.onsemi.com

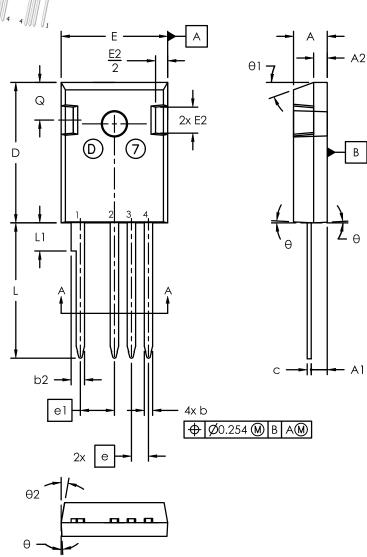
ORDERING INFORMATION

Part Number	Marking	Package	Shipping
UJ4C075044K4S	UJ4C075044K4S	TO247-4 (Pb-Free, Halogen Free)	600 Units / Tube





DATE 14 APR 2025



♦ Ø0.635 M	BAM
ØP \	
\$	
ØP1	
4 3 2	1 1
	EI

CVAA	millimeters				
SYM	MIN	NOM	MAX		
Α	4.70	5.03	5.31		
A1	2.21	2.40	2.59		
A2	1.50	2.03	2.49		
b	0.99	1.20	1.40		
b2	1.65	2.03	2.39		
C D	0.38	0.60	0.89		
D	20.80	20.96	21.46		
D1	13.08	_	1		
D2	0.51	1.19	1.35		
Е	15.49	15.90	16.26		
е	2.54 BSC				
e1		5.08 BSC			
E1	13.46	_	ı		
E2	3.43	3.89	5.20		
L	19.81	20.17	20.32		
L1	-	_	4.50		
ØP	3.40	3.60	3.80		
ØP1	7.06	7.19	7.39		
Q	5.38	5.62	6.20		
S	6.17 BSC				
θ	3°				
θ1	20°				
θ2	10°				

NOTE:

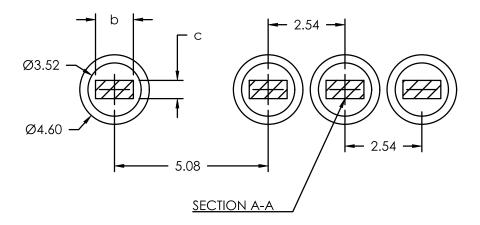
- 1. Dimensioning and tolerancing as per ASME Y14.5 2018
- 2. Controlling dimension: millimeters
- Package Outline in compliance with JEDEC standard var. AD.
- 4. Dimensions D & E does not include mold flash.
- 5. ØP to have max draft angle of 1.7° to the top with max. hole diameter of 3.91mm.
- 5. Through Hole diameter value = End Hole diameter
- 6. PCB Through Hole pattern as per IPC-2221/IPC-2222

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DESCRIPTION:	TO247-4 15.90x20.96x5.03	, 5.44P	PAGE 1 OF 2		

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RECOMMENDED PCB THROUGH HOLE



NOTE: LAND PATTERN AND THROUGH HOLE DIMENSIONS SERVE ONLY AS AN INITIAL GUIDE. END-USER PCB DESIGN RULES AND TOLERANCES SHOULD ALWAYS PREVAIL.

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