

Features

- Typ. $R_{DS(on)} = 22 \text{ m}\Omega$ @ $V_{GS} = 18 \text{ V}$
- Ultra Low Gate Charge $(Q_{G(tot)} = 137 \text{ nC})$
- High Speed Switching with Low Capacitance (C_{oss} = 146 pF)
- 100% Avalanche Tested
- This Device is Halide Free and RoHS Compliant with Exemption 7a, Pb Free 2LI (on Second Level Interconnection)

Typical Applications

- Solar Inverters
- Electric Vehicle Charging Stations
- UPS (Uninterruptible Power Supplies)
- Energy Storage Systems
- SMPS (Switch Mode Power Supplies)

MAXIMUM RATINGS (T_J = 25°C unless otherwise noted)

Param	Symbol	Value	Unit				
Drain-to-Source Voltage	V_{DSS}	1200	V				
Gate-to-Source Voltage	V_{GS}	-10/+22	V				
Continuous Drain Current (Notes 1, 3)	Steady State	T _C = 25					

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Table 1. THERMAL CHARACTERISTICS

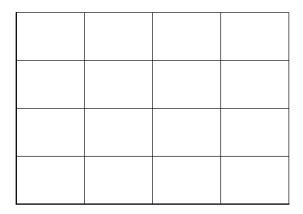
	Parameter	Symbol	Max	Unit
Jun	action-to-Case - Steady State (Note 1)	$R_{ heta JC}$	0.43	°C/W
Jun	nction-to-Ambient - Steady State (Note 1)	$R_{ heta JA}$	40	

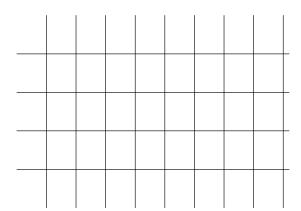
Table 2. RECOMMENDED OPERATING CONDITIONS

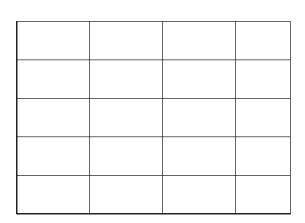
Parameter	Symbol	Value	Unit
Operation Values of Gate-to-Source Voltage	V_{GSop}	−5−3 +18	V

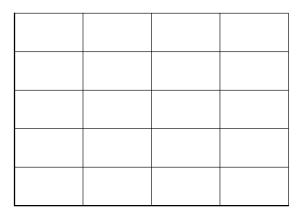
Functional

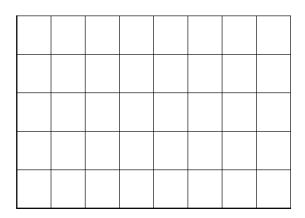
TYPICAL CHARACTERISTICS













TO-247-4LD CASE 340CJ ISSUE A

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Α В Øp1 D2 Α E E1 **A2** Q E/2 D1 D Ø L1 b2 **A1** b1 (3X) Ĺ 1 С b(4X) e1 e 2X ⊕ 0.254 M B A M

