

Table 1. THERMAL CHARACTERISTICS

Parameter	Symbol	Max	Unit
Junction-to-Case - Steady State (Note 1)	$R_{ heta JC}$	0.94	°C/W
Junction-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	•	-	•

Table 3. ELECTRICAL CHARACTERISTICS ($T_J = 25^{\circ}C$ unless otherwise specified) (continued)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit	
SOURCE-DRAIN DIODE CHARACTERISTICS							
Continuous Source-Drain Diode Forward Current	I _{SD}	V _{GS} = -3 V, T _C = 25°C (Note 6)	-	-	31	А	
Pulsed Source-Drain Diode Forward Current (Note 2)	I _{SDM}		-	-	98		
Forward Diode Voltage	V _{SD}	$V_{GS} = -3 \text{ V}, I_{SD} = 15 \text{ A}, T_{J} = 25^{\circ}\text{C}$	-	4.7	_	V	
Reverse Recovery Time	t _{RR}	V _{GS} = -3/18 V, I _{SD} = 15 A, dI _S /dt = 1000 A/μs, V _{DS} = 800 V (Note 6)	_	14.4	_	ns	
Reverse Recovery Charge	Q _{RR}		_	60	_	nC	
Reverse Recovery Energy	E _{REC}		_	4.8	_	μJ	
Peak Reverse Recovery Current	I _{RRM}		_	8.4	_	Α	
Charge Time	T _A		_	7.9	_	ns	
Discharge Time	T _B		_	6.5	-	ns	

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.

5. E_{ON}/E_{OFF} result is with body diode.

6. Defined by design, not subject to production test.



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 4 С b(4X) e1 e 2X ⊕ 0.254 M B A M

