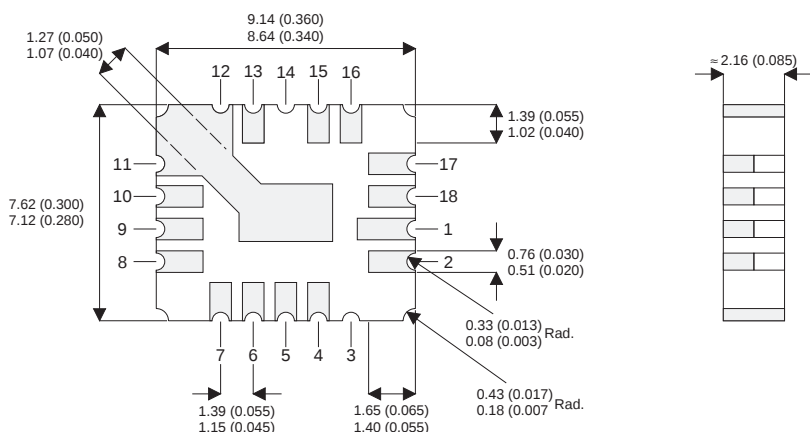


2N6796LCC4

MECHANICAL DATA

Dimensions in mm (inches)



N-CHANNEL POWER MOSFET

$$V_{DS} = 100V$$

$$I_D = 7.4A$$

$$R_{DS(ON)} = 0.18\Omega$$

LCC4 CERAMIC SURFACE MOUNT PACKAGE

Underside View

Pads 6, 7, 8, 9, 10, 11, 12, 13.	Source
Pads 4,5	Gate
Pads 1,2,15,16,17,18	Drain
Pads 3,14	Not Connected

FEATURES

- Hermetically sealed ceramic surface mount package
- Small footprint
- Simple drive requirements

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

V_{DS}	Drain–Source Voltage	100V
V_{DGR}	Drain–Gate Voltage ($V_{GS} = 1.0m\Omega$)	100V
V_{GS}	Gate–Source Voltage	$\pm 20V$
I_D	Drain Current Continuous	7.4A
I_{DM}	Drain Current Pulsed	30A
P_D	Total Device Dissipation @ $T_C = 25^{\circ}C$	22W
	Derate above $25^{\circ}C$	$0.17^{\circ}C/W$
T_J, T_{STG}	Operating and Storage Junction Temperature Range	-55 to $+150^{\circ}C$

THERMAL CHARACTERISTICS

$R_{\theta JC}$	Thermal Resistance Junction to Case	$5.0^{\circ}C/W$
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	$175^{\circ}C/W$
T_L	Maximum Lead Temperature 1.5mm from Case for 10 secs.	$300^{\circ}C$

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
OFF CHARACTERISTICS					
V _{(BR)DSS} Drain–Source Breakdown Voltage	V _{GS} = 0 I _D = 0.25mA	100			V
I _{DSS} Zero Gate Voltage Drain Current	V _{DS} = Rated V _{DS} V _{GS} = 0			250	μA
	V _{DS} = 80V V _{GS} = 0A T _J = 125°C			1000	
I _{GSSF} Gate–Body Leakage, Forward	V _{DS} = 0 V _{GS} = 20V			100	nA
I _{GSSR} Gate–Body Leakage, Reverse	V _{DS} = 0 V _{GS} = -20V			-100	
ON CHARACTERISTICS					
V _{GS(th)} Gate Threshold Voltage	V _{DS} = V _{GS} I _D = 0.5mA	2		4	V
R _{DS(on)} Static Drain–Source On–Resistance	V _{GS} = 10V I _D = 4.7A			0.18	Ω
	T _A = 125°C			0.35	
V _{DS(on)} Drain–Source On–Voltage	V _{GS} = 15V I _D = 7.4A			1.56	V
gf _S Forward Transconductance	V _{GS} = 15V I _D = 4.7A	3		9	mhos
DYNAMIC CHARACTERISTICS					
C _{iss} Input Capacitance	V _{DS} = 25V V _{GS} = 0 f = 1.0MHz	350		900	pF
C _{oss} Output capacitance		150		500	
C _{rss} Reverse Transfer Capacitance		50		150	

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