

TECHNICAL DATA DATA SHEET 4069, REV -

HERMETIC POWER MOSFET N-CHANNEL

FEATURES:

- 55 Volt, 0.016 Ohm MOSFET
- Hermetically Sealed
- Add a "C" after the SHD for ceramic seals (SHDC220455)
- Surface Mount Package

MAXIMUM RATINGS

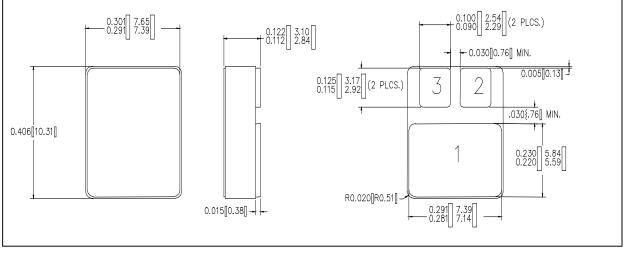
ALL RATINGS ARE AT $T_A = 25^{\circ}C$ UNLESS OTHERWISE SPECIFIED.

	A				
RATING	SYMBOL	MIN.	TYP.	MAX.	UNITS
GATE TO SOURCE VOLTAGE	V _{GS}	-	-	±20	Volts
CONTINUOUS DRAIN CURRENT $V_{GS} = 10V$, $T_C = 25^{\circ}C$	I _D	-	-	22	Amps
$V_{GS} = 10V, T_{C} = 100^{\circ}C$				16	
PULSED DRAIN CURRENT $@ T_{C} = 25^{\circ}C$	I _{DM}	-	-	88	Amps
OPERATING AND STORAGE TEMPERATURE	T _{OP} /T _{STG}	-55	-	+175	°C
TERMAL RESISTANCE JUNCTION TO CASE	$R_{ ext{ heta}JC}$	-	-	1.7	°C/W
TOTAL DEVICE DISSIPATION @ T _C = 25°C	PD	-	-	75	Watts

ELECTRICAL CHARACTERISTICS

BV _{DSS}	55	-	-	Volts
	-	-		Ω
R _{DS(ON)}			0.016	
$V_{GS(th)}$	2.0	-	4.0	Volts
g _{fs}	22	-	-	S(1/Ω)
				, , , , , , , , , , , , , , , , , , ,
I _{DSS}	-	-	25	
			250	μA
I _{GSS}	-	-	100	nA
			-100	
Q_g	-	-	101	
Q_{gs}			19	nC
Q_gd			41	
t _{d(ON)}	-	-	23	
t _r			141	nsec
$t_{d(OFF)}$			60	
t _f				
V_{SD}	-	-	1.3	Volts
t _{rr}	-	68	104	nsec
Q _{rr}	-	-	210	μC
C _{iss}	-	1900	-	
Coss		620		pF
C _{rss}		270		
	$\begin{tabular}{ c c c c } \hline R_{DS(ON)} & \hline V_{GS(th)} & \hline \\ \hline V_{GS(th)} & g_{fs} & \hline \\ \hline g_{fs} & \hline \\ I_{DSS} & \hline \\ I_{GSS} & \hline \\ \hline & & & \\ \hline & & \\ \hline & & & \\ \hline & & \\ \hline & & & \\ \hline \hline & & \\ \hline \hline & & \\ \hline & & \\ \hline \hline \hline & & \\ \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline$	Image: Post of the sector of the se	$\begin{array}{c c c c c c c } & - & - & - & - & - & - & - & - & - & $	$\begin{array}{c c c c c c c c c c } & - & - & & & & & & & & & & & & & & & $

SENSITRON DATA SHEET 4069, REV. -



MECHANICAL DIMENSIONS: in Inches / mm

LCC-5

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
N Channel Mosfet	DRAIN	GATE	SOURCE



TECHNICAL DATA

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