

SHD219501

TECHNICAL DATA DATA SHEET 778, REV. -

HERMETIC POWER MOSFET N-CHANNEL

FEATURES:

- 60 Volt, 0.020 Ohm, 55A MOSFET
- Isolated Hermetic Ceramic Package
- Fast Switching
- Low R_{DS (on)}
- Equivalent to IRFN054

MAXIMUM RATINGS

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

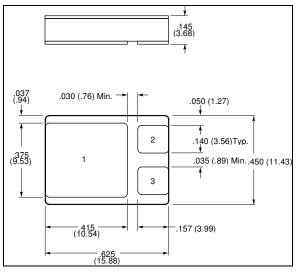
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RATING		SYMBOL	MIN.	TYP.	MAX.	UNITS
GATE TO SOURCE VOLTAGE		V _{GS}	-	-	±20	Volts
ON-STATE DRAIN CURRENT	@ T _C = 25°C	I _D	-	-	55	Amps
$V_{GS} = 10V$	@ T _C = 100°C		-	-	40	
PULSED DRAIN CURRENT	@ T _C = 25°C	I _{DM}	-	-	256	Amps
OPERATING AND STORAGE TEMPERATURE		T_{OP}/T_{STG}	-55	-	+150	°C
THERMAL RESISTANCE, JUNCTION TO CASE		$R_{ hetahJC}$	-	-	0.36	°C/W
TOTAL DEVICE DISSIPATION @ $T_c = 25$	O°	P _D	-	-	348	Watts

ELECTRICAL CHARACTERISTICS

BV _{DSS}	60	-	-	Volts
	-	-		
R _{DS(ON)}			0.02	Ω
V _{GS(th)}	2.0	-	4.0	Volts
g _{fs}	20	-	-	S(1/Ω)
	-	-		
I _{DSS}			25	μA
			250	-
I _{GSS}	-	-	100	nA
			-100	
t _{d(ON)}	-	-	33	
tr			180	nsec
t _{d(OFF)}			100	
t _f			100	
V _{SD}	-	-	2.5	Volts
t _{rr}	-	-	280	
				nsec
C _{iss}	-	1600	-	
C _{oss}		2000		pF
C _{rss}		340		
	$\begin{tabular}{ c c c c } \hline R_{DS(ON)} & V_{GS(th)} \\ \hline V_{GS(th)} & g_{fs} \\ \hline I_{DSS} & \\ \hline I_{GSS} & \\ \hline I_{GSS} & \\ \hline I_{d(ON)} & t_r \\ t_{d(OFF)} & t_f \\ \hline V_{SD} & \\ \hline t_{rr} & \\ \hline C_{iss} & \\ \hline C_{oss} & \\ \hline C_{oss} & \\ \hline \end{tabular}$	$\begin{array}{c c c c c c c c } & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c } & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c c } & - & - & & & & & & & & & & & & & & & $

SENSITRON DATA SHEET 778 REVISION -





LCC-3P

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
N-CHANNEL MOSFET, IN A SURFACE MOUNT LCC-3P PACKAGE	DRAIN	SOURCE	GATE



TECHNICAL DATA

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