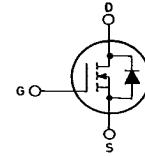


N - CHANNEL ENHANCEMENT MODE
 POWER MOS TRANSISTOR IN DIE FORM

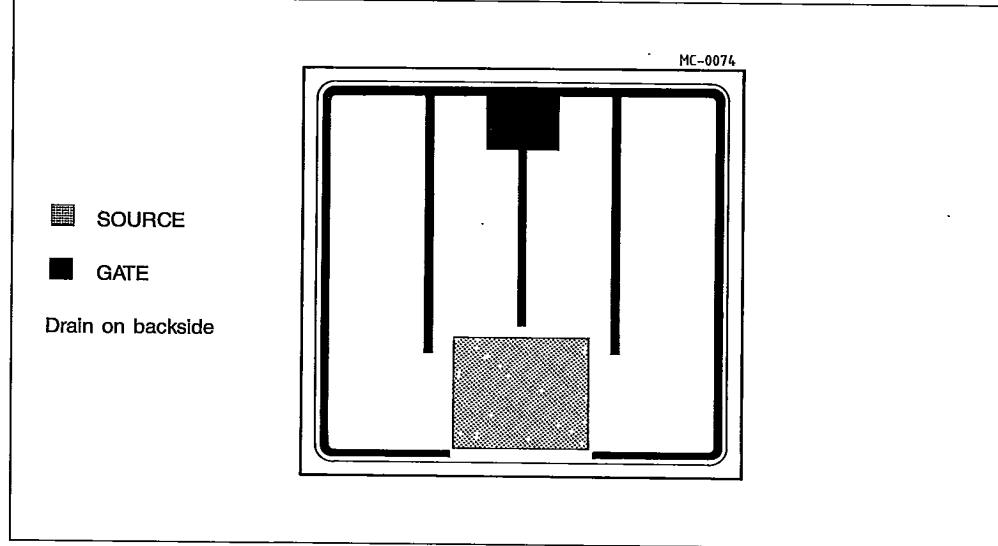
- DIE SIZE: 156 x 156 mils
- METALLIZATION:
Top Al
Back Au/Cr/Ni/Au
- BACKSIDE THICKNESS: 6100 Å
- DIE THICKNESS: 16 ± 2 mils
- PASSIVATION: P-Vapox
- BONDING PAD SIZE:
Source 40 x 34 mils
Gate 15 x 19 mils
- RECOMMENDED WIRE BONDING:
Source Al - max 15 mils
Gate Al - max 7 mils

SCHEMATIC DIAGRAM



V_{DSS}	$R_{DS(on)}$	I_D^*
100 V	0.1 Ω	19 A

N-channel enhancement mode POWER MOS field effect transistor. Easy drive and very fast switching times make this POWER MOS ideal for high speed switching applications.

Die geometry

* With R_{thj-c} max. 1.67°C/W

GUARANTEED PROBED ELECTRICAL CHARACTERISTICS ($T_j = 25^\circ\text{C}$, Note 1)

Parameters	Test Conditions		Min.	Typ.	Max.	Unit
$V_{(\text{BR})\text{DSS}}$ Drain-source breakdown voltage	$I_D = 250 \mu\text{A}$	$V_{GS} = 0$	100			V
			T-39-11			
I_{DSS} Zero gate voltage drain current	$V_{DS} = \text{Max Rating}$ $V_{DS} = \text{Max Rating} \times 0.8$	$T_j = 125^\circ\text{C}$			250 1000	μA μA
I_{GSS} Gate-body leakage current	$V_{GS} = \pm 20 \text{ V}$				100	nA
$V_{GS(\text{th})}$ Gate threshold voltage	$V_{DS} = V_{GS}$	$I_D = 1 \text{ mA}$	2.1		4	V
$R_{DS(\text{on})}$ Static drain-source on resistance	$V_{GS} = 10 \text{ V}$	$I_D = 1 \text{ A}$			0.1	Ω

NOTES: 1 - Due to probe testing limitations dc parameters only are tested. They are measured using pulse techniques: pulse width <300 μs , duty cycle <2%

2 - For detailed device characteristics please refer to the discrete device datasheet