

MOSFET

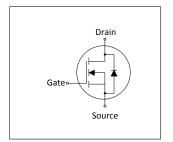
OptiMOS™3 Power MOS Transistor Chip

- N-channel enhancement mode
- For dynamic characterization refer to the datasheet of IPD060N03L G
- AQL 0.65 for visual inspection according to failure catalogue
- Electrostatic Discharge Sensitive Device according to MIL-STD 883C
- Die bond: soldered or glued
- Backside metallization: NiV system • Frontside metallization: AlCu system
- · Passivation: nitride + imide



Table 1 Roy 1 diretimation 1 aramotore					
Parameter	Value	Unit			
$V_{(BR)DSS}$	30	V			
R _{DS(on)}	6.0 ¹⁾	mΩ			
Die size	2.26 x 1.24	mm ²			
Thickness	175	μm			











Type / Ordering Code	Package	Marking	Related Links
IPC028N03L3	Chip	not defined	-

Electrical Characteristics on Wafer Level

at $T_i = 25^{\circ}$ C, unless otherwise specified

Table 2

Parameter	Symbol	Values		l lmi4	Note / Test Condition	
		Min.	Тур.	Max.	Unit	Note / Test Condition
Drain-source breakdown voltage	V _{(BR)DSS}	30	-	-	V	V _{GS} =0 V ,I _D =1 mA
Gate threshold voltage	$V_{\rm GS(th)}$	1	-	2.2	V	$V_{\rm DS}$ = $V_{\rm GS}$, $I_{\rm D}$ =250 μ A
Zero gate voltage drain current	I _{DSS}	-	0.1	2	μA	V _{GS} =0 V ,V _{DS} =30 V
Gate-source leakage current	I _{GSS}	-	10	100	nA	V _{GS} =20 V ,V _{DS} =0 V
Drain-source on- resistance	R _{DS(on)}	-	5 ²⁾	50 ³⁾	mΩ	V _{GS} =10 V ,I _D =2.0 A
Reverse diode forward on-voltage	V _{SD}	-	0.86	1.1	V	V _{GS} =0 V ,I _F =1A

3) limited by wafer test-equipment

 $^{^{1)}}$ packaged in a PG-TO252-3 (see ref. product) $^{2)}$ typical bare die $R_{\rm DS(on)};~V_{\rm GS}{=}10~{\rm V},$ when used with 1x500µm Al-wedge



2 Package Outlines

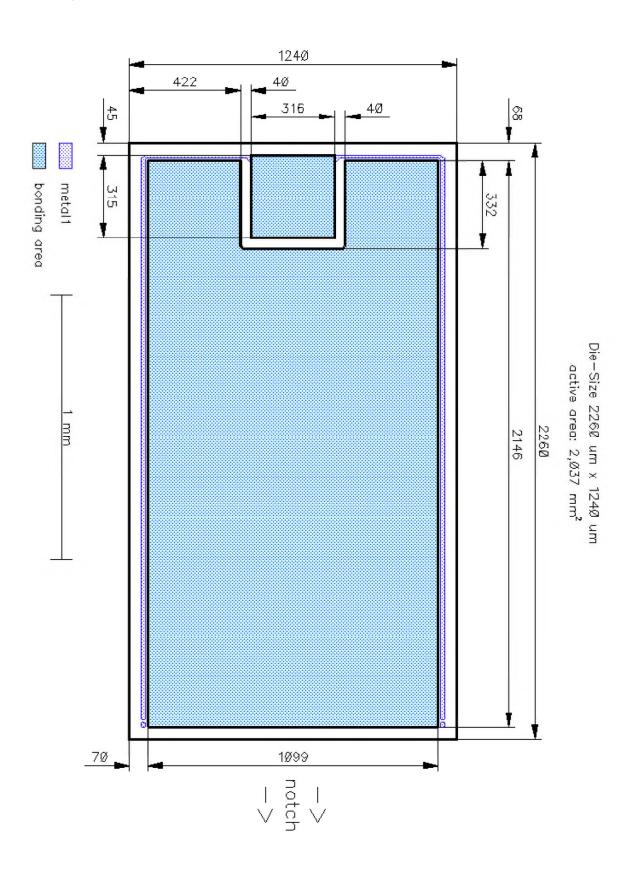


Figure 1 Outline Chip, dimensions in μm

OptiMOS™3 Power MOS Transistor Chip





Revision History

IPC028N03L3

Revision: 2017-08-25, Rev. 2.6

Previous Revision

Revision	Date	Subjects (major changes since last revision)		
2.5	2014-07-23	Release of Final Version		
2.6	2017-08-25	Update Typ Rds(on)		

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