

MITSUBISHI ELECTRIC CORPORATION

Technical Note.	Prepared by	T. Ishida	R	A	T. Ishida	B	<i>T. Maemura</i>		
	Checked by	--	E		--		-		
	Approved by	K. Maemura	V		K. Maemura		<i>T. Ishida</i>		
	DATE	'08-4/28			'08-7/7		'11 - 5/12		

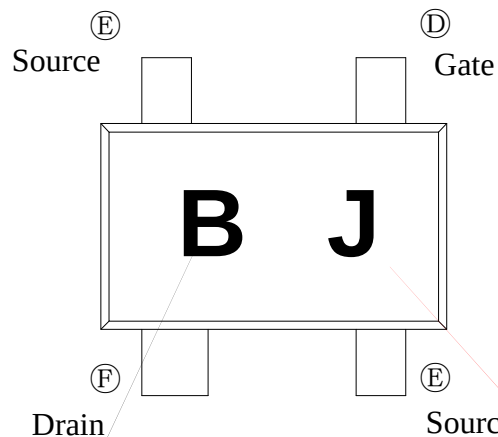
Marking manner of MITSUBISHI GaAs HEMT & FET

<Contents>

1. 4pin flat lead package	: GD-30	2
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1. 4pin flat lead package : GD-30

Top View



Electrodes direction:

- (D) Gate
- (E) Source
- (F) Drain

Drain pin has wider-body than other pins.



Type ▶

Letter	Type
A	<u>MGF4931AM</u>
B	<u>MGF4934AM/BM</u>
C	<u>MGF4921AM</u>
D	<u>MGF4934CM</u>
E	<u>MGF4935AM</u>
F	<u>MGF4936AM</u>

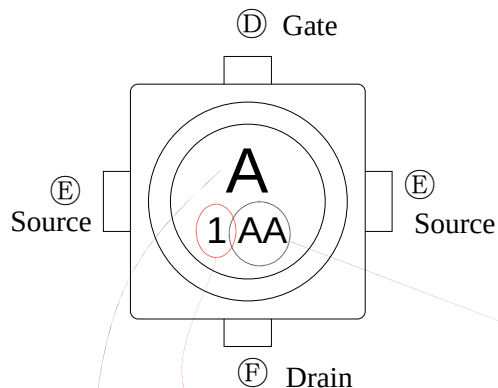
The production year and month

	CY 2008	CY 2009	CY 2010	CY 2011	CY 2012	CY 2013
Jan.	s	9	L	Y	s	9
Feb.	t	0	M	Z	t	0
Mar.	u	A	N	a	u	Back to "A"
Apr.	v	B	P	b	v	
May	1	C	Q	c	1	
Jun.	2	D	R	d	2	
Jul.	3	E	S	e	3	
Aug.	4	F	T	h	4	
Sep.	5	G	U	k	5	
Oct.	6	H	V	m	6	
Nov.	7	J	W	n	7	
Dec	8	K	X	r	8	

Production year and month are indicated using numbers and alphabet.
Right side character rounds once 4 years.

2. micro-X type plastic package : GD-32

Top View



Electrodes direction:

- Ⓓ Gate
- Ⓔ Source
- Ⓕ Drain



▲ lot number in month.
'AA, AB, AC, AD ,,,AZ, BA, BB,,,'

Type ▼

Letter	Type
A	<u>MGF4941AL</u>
B	<u>MGF4963BL</u>
E	<u>MGF4941CL-01</u>
H	<u>MGF4964BL</u>

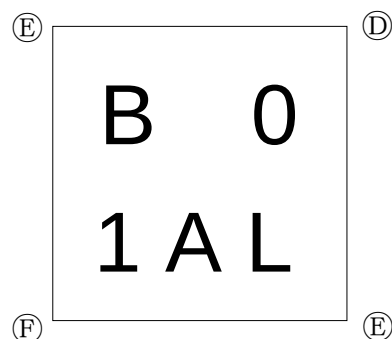
▶ The production year and month

	CY 2008	CY 2009	CY 2010	CY 2011	CY 2012	CY 2013
Jan.	s	9	L	Y	s	9
Feb.	t	0	M	Z	t	0
Mar.	u	A	N	a	u	Back to "A"
Apr.	v	B	P	b	v	
May	1	C	Q	c	1	
Jun.	2	D	R	d	2	
Jul.	3	E	S	e	3	
Aug.	4	F	T	h	4	
Sep.	5	G	U	k	5	
Oct.	6	H	V	m	6	
Nov.	7	J	W	n	7	
Dec.	8	K	X	r	8	

Production year and month are indicated using numbers and alphabet.
Right side character rounds once 4 years.

3. Leadless ceramic package : GD-26,27

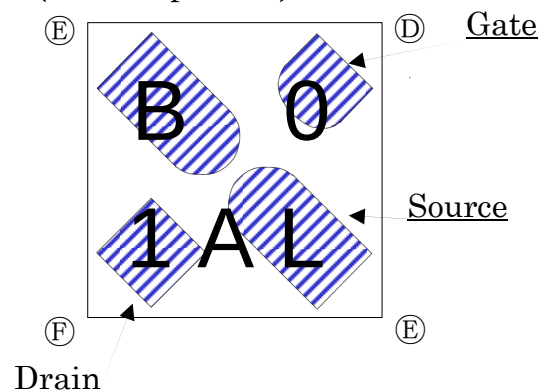
Top View



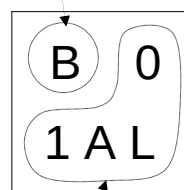
Electrodes direction:

- Ⓓ Gate
- Ⓔ Source
- Ⓕ Drain

Terminal position
(from Top View)



Type



Letter	Type
A	<u>MGF4951A/52A</u>
B	<u>MGF4953A/54A</u>
C	<u>MGF1951A</u>
D	<u>MGF1952A</u>
E	<u>MGF1953A</u>
F	<u>MGF1954A</u>
G	<u>MGF4851A</u>
J	<u>MGF4953B</u>



Manufacturing lot number

“01AL”: ‘0’ means year 2000 & 2010. (8: 2008, 9: 2009,,,1: 2011,,)

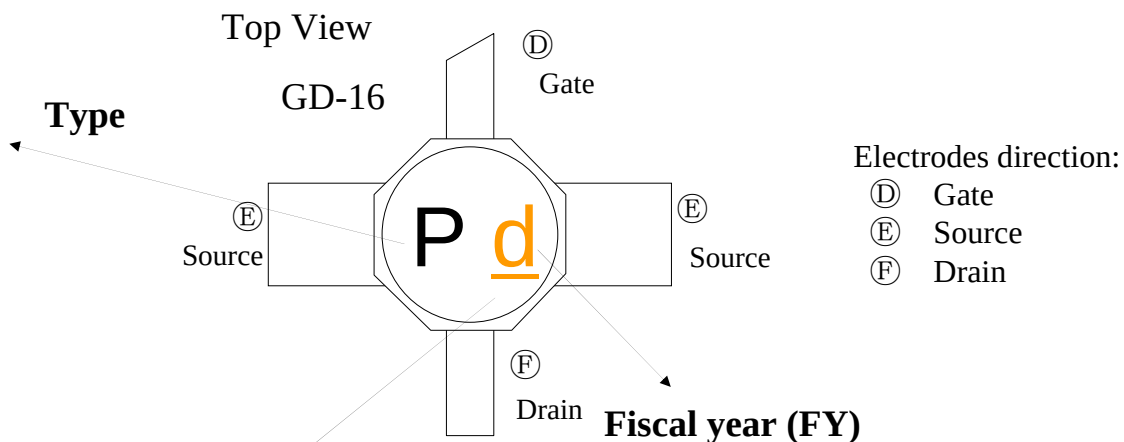
‘1’ means April (1:Apr. 2:May, ,, 9:Dec., X:Jan, Y:Feb, Z:Mar.)

‘AL’ means lot number in month. ‘AA, AB, AC, AD ,,,AZ,BA,,,’

4. Micro-X package

Left side character indicates the type number.
 Right side character, bottom bar and the color indicate manufacturing year and month.

Type	Symbol	Outline
MGF1302	A	GD-4
MGF1303B	G	
MGF1451A	T	
MGF1402B	J	GD-9
MGF1403B	L	
MGF1601B	E	GD-11
MGF1801B	D	
MGF1801BT	D	GD-24
MGF1907A	P	GD-16
MGF1908A	R	



Bottom bar and color indicate manufacturing month

	Without bottom bar	With bottom bar
Blue	Apr.	<u>Oct.</u>
Orange	May	<u>Nov.</u>
Black	June	<u>Dec.</u>
Red	July	<u>Jan.</u>
Green	Aug.	<u>Feb.</u>
Brown	Sep.	<u>Mar.</u>

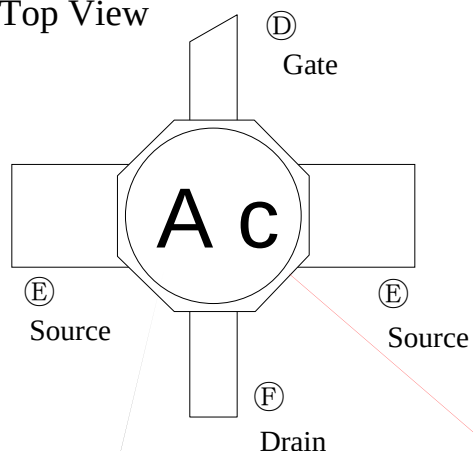
year	Symbol	year	Symbol	year	Symbol
'90	g	'00	s	'10	c
'91	h	'01	t	'11	d
'92	j	'02	u	'12	e
'93	k	'03	v	'13	f
'94	l	'04	w	'14	g
'95	m	'05	x		
'96	n	'06	y		
'97	p	'07	z		
'98	q	'08	a		
'99	r	'09	b		

back to
"h"

5. Micro-X package :GD-31

[micro-X package for MGF4961B] GD-31

Top View



Electrodes direction:

- Ⓓ Gate
- Ⓔ Source
- Ⓕ Drain



Type

Letter	Type
A	MGF4961B

The production year and month

CY2008		CY2009		CY2010		CY2011		CY2012	
Month	Symbol	Month	Symbol	Month	Symbol	Month	Symbol	Month	Symbol
Jan.	s	Jan.	9	Jan.	L	Jan.	Y	Jan.	s
Feb.	t	Feb.	0	Feb.	M	Feb.	Z	Feb.	t
Mar	u	Mar	A	Mar	N	Mar	a	Mar	u
Apr	v	Apr	B	Apr	P	Apr	b	Apr	v
May	1	May	C	May	Q	May	c	May	
Jun	2	Jun	D	Jun	R	Jun	d	Jun	back to "1"
Jul	3	Jul	E	Jul	S	Jul	e	Jul	
Aug	4	Aug	F	Aug	T	Aug	h	Aug	
Sep	5	Sep	G	Sep	U	Sep	k	Sep	
Oct	6	Oct	H	Oct	V	Oct	m	Oct	
Nov	7	Nov	J	Nov	W	Nov	n	Nov	
Dec	8	Dec	K	Dec	X	Dec	r	Dec	

Production year and month are indicated using numbers and alphabet.
Right side character rounds once 4 years.