



RADIATION TEST SUMMARY

PART TYPE : 2N6798

DESCRIPTION : N-CHANNEL MOSFET

REPORT NO. : RD174

PARAMETERS PLOTTED :

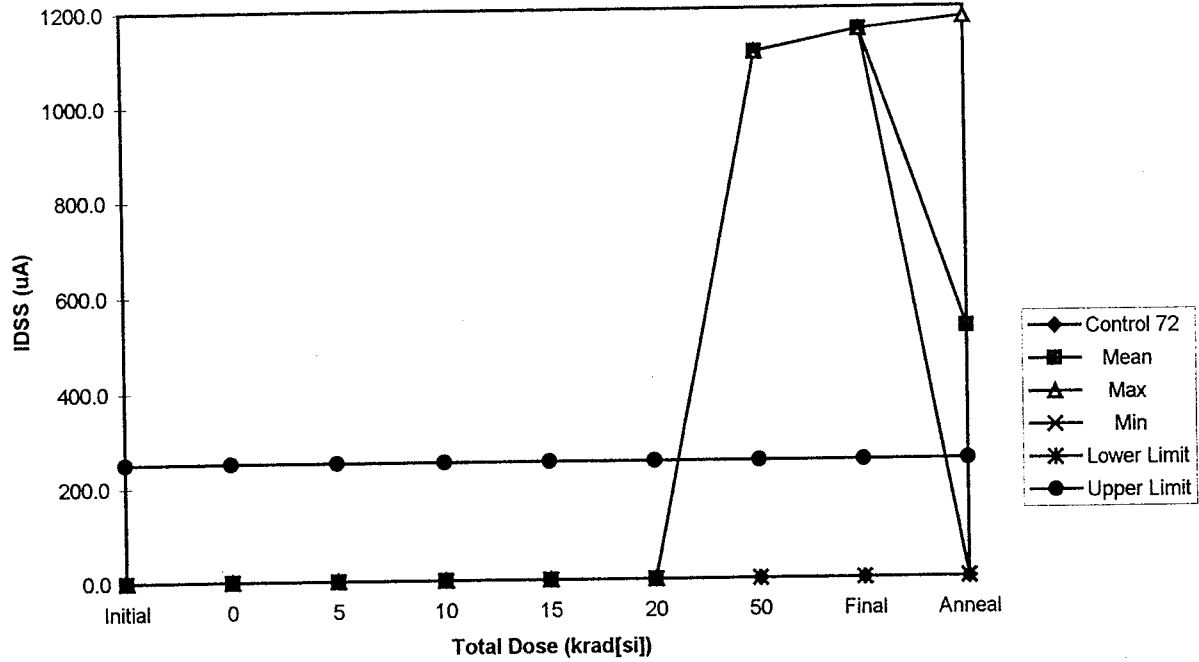
Vgs(th)
IDSS

NOTE :

The results for BV(dss), Igss and RDS(on) showed no significant change and hence plots were not considered necessary



Radiation Results for 2N6798



Dose (kRad)	Control 72 (uA)	Mean (uA)	Max (uA)	Min (uA)	Lower Limit (uA)	Upper Limit (uA)	Std.Dev.
Initial	0.0	0.0	0.0	0.0	0.0	250.0	0.0
0	0.0	0.0	0.0	0.0	0.0	250.0	0.0
5	0.0	0.0	0.0	0.0	0.0	250.0	0.0
10	0.0	0.0	0.0	0.0	0.0	250.0	0.0
15	0.0	0.0	0.0	0.0	0.0	250.0	0.0
20	0.0	0.0	0.0	0.0	0.0	250.0	0.0
50	0.0	1108.0	1108.0	1108.0	0.0	250.0	0.0
Final	0.0	1154.0	1154.0	1154.0	0.0	250.0	0.0
Anneal	0.0	527.5	1178.0	1.0	0.0	250.0	613.3

Lot size for statistics : 4 devices

RD 174 Date Code: 9309B

Results file : 2N6798_RD174_INIT_EMS@_IG6 from: 11.03.70 / 23:25:31
 Operator : Steve Young.
 Part number : 2N6798.
 Lot number : RIR 64226.
 Order number : Date Code 9309B.
 Vendor : IR.
 : 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
 : TEST #3 INITIAL EMS AT IG6
 : 2N6798 PO-PL-IG6-PL-0005 ISS.3 / 1.0 SMR 24/10/95

Test steps

1. V(BR)DSS				
2. VGS	200.0	...	700.0	V
3. IGSS (FWD)	2000.0	...	4000.0	mV
4. IGSS (REV)	(0.0)	...	100.0	nA
5. IDSS	(0.0)	...	100.0	nA
6. RDS on	(0)	...	250	uA
	(0.000)	...	0.400	Ohm

	72	73	74	75	76
1.1 [V]	240.2	241.2	239.3	240.9	242.7
2.1 [mV]	3284.3	3450.0	3307.7	3440.2	3125.9
3.1 [nA]	1.1	1.1	1.1	1.1	1.1
4.1 [nA]	1.1	1.1	1.1	1.1	1.1
5.1 [uA]	0	0	0	0	0
6.1 [Ohm]	0.256	0.259	0.268	0.260	0.264

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Results file : 2N6798_RD174_INIT_EMS_@_ERA. from: 14.03.70 / 21:03:51
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
: TEST #4 INITIAL EMS AT ERA.
: 2N6798 PO-PL-IGG-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1.	V(BR)DSS	200.0	...	700.0	V
2.	VGS	2000.0	...	4000.0	mV
3.	IGSS (FWD)	(0.0)	...	100.0	nA
4.	IGSS (REV)	(0.0)	...	100.0	nA
5.	IDSS	(0)	...	250	uA
6.	RDS on	(0.000)	...	0.400	Ohm

	72	73	74	75	76
1.1 [V]	240.7	241.5	239.7	241.1	242.8
2.1 [mV]	3273.6	3437.9	3293.3	3432.6	3118.7
3.1 [nA]	0.2	0.2	0.2	0.1	0.1
4.1 [nA]	0.2	0.2	0.2	0.2	0.2
5.1 [uA]	0	0	0	0	0
6.1 [Ohm]	0.264	0.271	0.271	0.268	0.273

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RD174_2N6798_INIT_EMS@_IG6 / 1.0 SMR 24/10/95

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Results file : 2N6798_RD174_EMS@_5_KRADS. from: 14.03.70 / 21:11:12
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 12.
: TEST #7 EMS @ 5 KRADS.
: 2N6798 PO-PL-IG6-PL-0005 ISS.3 / 1.0 SMR 24/0/95

Test steps

1. V(BR)DSS	200.0	...	700	V
2. VGS	2000.0	...	4000	mV
3. IGSS (FWD)	(0.0)...		100	nA
4. IGSS (REV)	(0.0)...		100	nA
5. IDSS	(0)...		25	uA
6. RDS on	(0.000)...		100	Ohm

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RD174_2N6798_INIT_EMS @_IGG / 1.0 SMR 24/10/95

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Results file : 2N6798_RD174_EMS @_5_KRADS. from: 14.03.70 / 21:11:12
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
: TEST #7 EMS @ 5 KRADS.
: 2N6798 PO-PL-IGG-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1.	V(BR)DSS	200.0	...	700.0	V
2.	VGS	2000.0	...	4000.0	mV
3.	IGSS (FWD)	(0.0)	...	100.0	nA
4.	IGSS (REV)	(0.0)	...	100.0	nA
5.	IDSS	(0)	...	250	uA
6.	RDS on	(0.000)	...	0.400	Ohm

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	72	73	74	75	76
1.1 [V]	246.4	239.3	237.8	239.3	241.3
2.1 [mV]	3148.9	2979.6	2825.3	2961.1	2631.2
3.1 [nA]	1.4	1.4	1.4	1.4	1.3
4.1 [nA]	1.4	1.4	1.4	1.4	1.4
5.1 [uA]	0	0	0	0	0
6.1 [Ohm]	0.298	0.255	0.256	0.257	0.254

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RD174_2N6798_INIT_EMS@_IGG / 1.0 SMR 24/10/95

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Results file : 2N6798_RD174_EMS@_10_KRADS. from: 14.03.70 / 21:43:07
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
: TEST #13 EMS @ 10 KRADS.
: 2N6798 PO-PL-IGG-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1.	V(BR)DSS	200.0	...	700.0	V
2.	VGS	2000.0	...	4000.0	mV
3.	IGSS (FWD)	(0.0)	...	100.0	nA
4.	IGSS (REV)	(0.0)	...	100.0	nA
5.	IDSS	(0)	...	250	uA
6.	RDS on	(0.000)	...	0.400	Ohm

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	72	73	74	75	76
1.1 [V]	244.6	239.0	237.4	239.3	240.9
2.1 [mV]	3195.5	2509.2	2347.0	2484.4	2145.4
3.1 [nA]	1.4	1.4	1.4	1.4	1.4
4.1 [nA]	1.2	1.5	1.5	1.4	1.4
5.1 [uA]	0	0	0	0	0
6.1 [Ohm]	0.283	0.250	0.250	0.252	0.251

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RD174_2N6798_INIT_EMS@_IG6 / 1.0 SMR 24/10/95

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Results file : 2N6798_RD174_EMS@_15_KRADS. from: 14.03.70 / 22:19:27
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
: TEST #16 EMS @ 15 KRADS.
: 2N6798 PO-PL-IG6-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1. V(BR)DSS	200.0	...	700.0	V
2. VGS	2000.0	...	4000.0	mV
3. IGSS (FWD)	(0.0)	...	100.0	nA
4. IGSS (REV)	(0.0)	...	100.0	nA
5. IDSS	(0)	...	250	uA
6. RDS on	(0.000)	...	0.400	Ohm

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	72	73	74	75	76
1.1 [V]	245.9	238.9	237.3	239.0	241.0
2.1 [mV]	3161.5	2049.8	1876.5	2016.9	1658.9
3.1 [nA]	1.6	1.5	1.5	1.5	1.5
4.1 [nA]	1.6	1.6	1.6	1.6	1.6
5.1 [uA]	0	0	0	0	0
6.1 [Ohm]	0.294	0.253	0.253	0.255	0.254

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RD174_2N6798_INIT_EMS@_IG6 / 1.0 SMR 24/10/95

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Results file : 2N6798_RD174_EMS@_20_KRADS. from: 14.03.70 / 22:40:57
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
: TEST #19 EMS @ 20 KRADS.
: 2N6798 PO-PL-IG6-PL-0005 ISS.3 / 1.0 SMR 24/10/95

Test steps

1.	V(BR)DSS	200.0	...	700.0	V
2.	VGS	2000.0	...	4000.0	mV
3.	IGSS (FWD)	(0.0)	...	100.0	nA
4.	IGSS (REV)	(0.0)	...	100.0	nA
5.	IDSS	(0)	...	250	uA
6.	RDS on	(0.000)	...	0.400	Ohm

	72	73	74	75	76
1.1 [V]	246.4	238.9	237.2	238.9	240.6
2.1 [mV]	3157.2	1597.2 F	1423.1 F	1565.5 F	1203.1 F
3.1 [nA]	1.6	1.5	1.6	1.6	1.5
4.1 [nA]	1.7	1.7	1.7	1.7	1.6
5.1 [uA]	0	0	0	0	0
6.1 [Ohm]	0.296	0.249	0.250	0.249	0.251

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RD174_2N6798_INIT_EMS @_IG6 / 1.0 SMR 24/10/95

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Results file : 2N6798_RD174_EMS @ 50_KRADS. from: 15.03.70 / 01:24:38
Operator : Steve Young.
Part number : 2N6798.
Lot number : RIR 64226.
Order number : Date Code 9309B.
Vendor : IR.
: 4 PARTS S/No's 73,74,75,76 + 1 CONTROL S/No 72.
: TEST #22 EMS @ 50 KRADS.
: 2N6798 PO-PL-IG6-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1. V(BR)DSS	200.0	...	700.0	V
2. VGS	2000.0	...	4000.0	mV
3. IGSS (FWD)	(0.0)...		100.0	nA
4. IGSS (REV)	(0.0)...		100.0	nA
5. IDSS	(0)...		250	uA
6. RDS on	(0.000)...		0.400	Ohm

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	72	73	74	75	76
1.1 [V]	247.0	0.2 FI	0.1 FI	0.1 FI	0.1 FI
2.1 [mV]	3145.8	1.8 FI	0.1 FI	0.4 FI	1.9 FI
3.1 [nA]	1.7	1.5	1.5	1.5	1.5
4.1 [nA]	1.7	1.8	1.8	1.8	1.7
5.1 [uA]	0	1108 FI	1108 FI	1108 FI	1108 FI
6.1 [Ohm]	0.305	0.255	0.254	0.250	0.252

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RIR64226_RD174_POST_RAD_24HR / 1.0 SMR 24/10/95

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Results file : RIR64226_RD174_POST_RAD_24HR from: 26.01.96 / 17:17:01
Operator : I ROBINS
Part number : 2N6798
Lot number : RIR 64226 RAD174
Order number : D/C 9309
Vendor : IR
: SERIAL NUMBERS 73,74,75,76 CONTROL SERIAL NUMBER=72
: TEST POST RAD ROOM TEMP 24HR ANNEAL TA07B SA07.03
: 2N6798 PO-PL-IGG-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1.	V(BR)DSS	200.0	...	700.0	V
2.	VGS	2000.0	...	4000.0	mV
3.	IGSS (FWD)	(0.0)	...	100.0	nA
4.	IGSS (REV)	(0.0)	...	100.0	nA
5.	IDSS	(0)	...	250	uA
6.	RDS on	(0.000)	...	0.400	Ohm

	72	73	74	75	76	72
1.1 [V]	240.6	0.4 FI	0.2 FI	0.3 FI	0.4 FI	240.4
2.1 [mV]	3278.0	3.5 FI	5.1 FI	2.0 FI	3.3 FI	3278.4
3.1 [nA]	1.2	1.1	1.1	1.1	1.1	1.2
4.1 [nA]	1.2	1.2	1.2	1.2	1.2	1.2
5.1 [uA]	0	1154 FI	1154 FI	1154 FI	1154 FI	0
6.1 [Ohm]	0.258	0.264	0.255	0.252	0.257	0.258

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA07F
RIR64226_RD174_POST_FINAL_EMS / 1.0 SMR 24/10/95

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Results file : RIR64226_RD174_POST_FINAL_EMS from: 03.02.96 / 11:32:31
Operator : I ROBINS
Part number : ZN6798
Lot number : RIR 64226 RD174
Order number : D/C 93098
Vendor : IR
: SERIAL NUMBERS Q73,Q74,Q75,Q76 CONTROL SERIAL NUMBER=Q72
: TEST POST RAD 168HR ANNEAL FINAL ROOM TEMP EMS TA07BSA07.03
: ZN6798 PO-PL-IG6-PL-0005 ISS.3 / 1.0 SMR 24/10/95
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Test steps

1.	V(BR)DSS	200.0	...	700.0	V
2.	VGS	2000.0	...	4000.0	mV
3.	IGSS (FWD)	(0.0)	...	100.0	nA
4.	IGSS (REV)	(0.0)	...	100.0	nA
5.	IDSS	(0)	...	250	uA
6.	RDS on	(0.000)	...	0.400	Ohm

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	72	73	74	75	76	72
1.1 [V]	240.6	240.3	0.3 FI	240.6	0.3 FI	240.5
2.1 [mV]	3276.9	1050.0 FI	162.2 FI	1649.4 FI	1.2 FI	3277.0
3.1 [nA]	0.9	1.0	0.9	1.0	0.9	1.0
4.1 [nA]	0.8	0.9	0.9	1.0	1.0	1.0
5.1 [uA]	0	7	924 FI	1	1178 FI	0
6.1 [Ohm]	0.254	0.261	0.260	0.264	0.260	0.253