	ESC	C	DO	DCUMENT	CHANGE REQUEST		
DCR number	509	Changes re	quired for: Ger	eral	Originator: S Jeffery - ESCC		
Date: 2009/05	/06	Date sent:	2009/05/06		Organisation: ESA/ESTEC		
Status: IMPLE	MENTED						
Title:	Transistors Field-I	Effect N-Chann	el, based on typ	es 2N4391/2N43	92 and 2N4393		
Number:	5205/003		Issue:	2			
Other documents affected:							
Page:							
See attachment	t						
Paragraph:							
See attachment	t						
Original wording	j :						
Proposed wordi	ng:						
-	kimum Ratings tabl mat is in-line with o				ail spec is clear, complete and the		
Justification:							
Improve the content and clarity of the spec.							
Attachments:							
5205003_lssue	_3Draft_A.pdf,	null					
Modifications:							
Page 6: original Note 2 to Maximum Ratings, add ", and any handling, "between "testing" and "performed".							
Approval signat	ure:						
5,2.(cg	Tlari-9						
Date signed:							
2009-05-06							

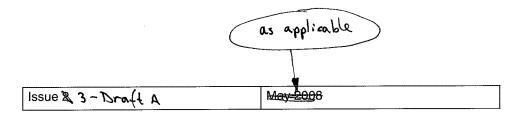


Pages 1 to 13

TRANSISTORS, FIELD-EFFECT, N-CHANNEL

BASED ON TYPE 2N4391, 2N4392 AND 2N4393

ESCC Detail Specification No. 5205/003





Document Custodian: European Space Agency - see https://escies.org



ESCC Detail Specification No. 5205/003

PAGE 2

ISSUE \$ 3- Graft A

as applicable

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ESCC Detail Specification No. 5205/003

PAGE 3 ISSUE & 3-Draft A

DOCUMENTATION CHANGE NOTICE

(Refer to https://escies.org for ESCC DCR content)

38 Specification up issued to incorporate editorial and technical changes per DCR.



ESCC Detail Specification No. 5205/003

PAGE 6 ISSUE & 3- Draft A

when stipulated in Test Methods and Procedures of the ESCC Generic Specification.

-					
(At	Tcaso	٤	+25°	(\nearrow
	CASE	_	-	~)

	Characteristics	Symbols	Maximum Ratings	Unit	Remarks	
	Drain-Source Voltage	V _{DS}	40	V	Over entire	
	Gate-Source Voltage	V _{GS}	-40	V	operating temperature	
	Gate-Drain Voltage	V _{GD}	-40	V	range	
	Gate Current	I _G	50	mA		
	Power Dissipation	P _{tot} 1	0.300	Wét	At T _{amb} ≤ +25°C	
see		Ptvt 2	1.8	W	Divotes 1	
ttached)	Operating Temperature Range	T _{op}	-55 to +175	°C	Note 🗞 1	
	Storage Temperature Range	T _{stg}	-65 to + 200	°C	Note & 1	
	Soldering Temperature	T _{sol}	+235	°C	Note 🗞 2	

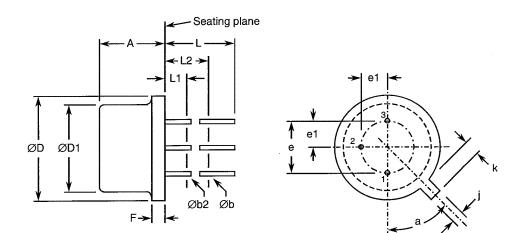
NOTES:

Tor Tamb > +25°C, derate tinearly to 0W at +175°C

- For Variants with tin-lead plating or hot solder dip lead finish all testing performed at T_{amb} > +125°C shall be carried out in a 100% inert atmosphere.
- 2. Solution 10 seconds maximum at a distance of not less than 1.5mm from the device body and the same lead shall not be resoldered until 3 minutes have elapsed.

1.6 PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION

1.6.1 Metal Can Package (TO-18) - 3 lead



Symbols	Dimensio Min	ons mm Max	Notes
A	4.32	5.33	
Øb	0.406	0.533	2, 3

Thermal Resistance,				
Junction-to-Ambient	R _{th(j-a)}	500	°C/W	
Thermal Resistance,				
Junction-to-Case	R _{th(j-c)}	83.3	°C/W	