

DOCUMENT CHANGE REQUEST

509 DCR number Changes required for: General Originator: S Jeffery - ESCC Organisation: ESA/ESTEC Date: 2009/05/06 Date sent: 2009/05/06 Status: IMPLEMENTED Title: Transistors Field-Effect N-Channel, based on types 2N4391/2N4392 and 2N4393 2 Number: 5205/003 Issue: Other documents affected: Page: See attachment Paragraph: See attachment Original wording: Proposed wording: Update the Maximum Ratings table (see the attachment for details) so that this detail spec is clear, complete and the content and format is in-line with other detail specifications for similar Part Types. Justification: Improve the content and clarity of the spec. Attachments: 5205003_Issue_3_-_Draft_A.pdf, null Modifications: Page 6: original Note 2 to Maximum Ratings, add ", and any handling, "between "testing" and "performed". Approval signature: Date signed: 2009-05-06

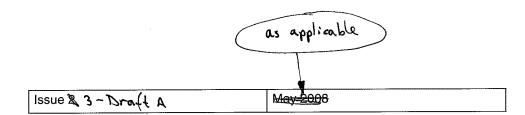


Pages 1 to 13

TRANSISTORS, FIELD-EFFECT, N-CHANNEL

BASED ON TYPE 2N4391, 2N4392 AND 2N4393

ESCC Detail Specification No. 5205/003







ESCC Detail Specification No. 5205/003

as andicable

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DOCUMENTATION CHANGE NOTICE

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

DCR N	Vo.	CHANGE DESCRIPTION
• 3	78 7	Specification up issued to incorporate editorial and technical changes per DCR.



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

(Δt)	~	_	+2500
/WE	CASO	=	+43 (
\ _	- 0030		

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	l _G	50	mA		
Power Dissipation	P _{tot}	0.300	West	At T _{amb} ≤ +25°C	
	Ptut 2	1.8	W	Digites (
Operating Temperature Range	T _{op}	-55 to +175	°C	Note 2 1	
Storage Temperature Range	T _{stg}	-65 to + 200	°C	Note & 1	
Soldering Temperature	T _{sol}	+235	°C	Note & 2	

attached

See

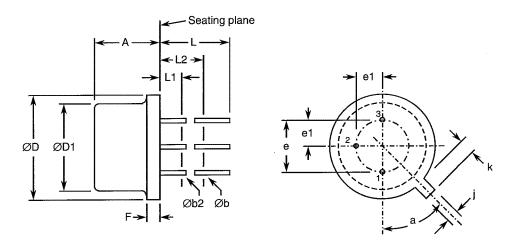
NOTES:

Tor Tamb > +25°C, derate linearly 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.
- Duration 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	Dimensions mm Min Max		Notes	
А	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	