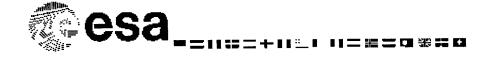


Pages 1 to 18

### DIODES, VOLTAGE REGULATORS, BASED ON SERIES BZX85C ESCC Detail Specification No. 5102/002

### ISSUE 2 April 2007





PAGE

ISSUE 2

### LEGAL DISCLAIMER AND COPYRIGHT

European Space Agency, Copyright © 2007. All rights reserved.

The European Space Agency disclaims any liability or responsibility, to any person or entity, with respect to any loss or damage caused, or alleged to be caused, directly or indirectly by the use and application of this ESCC publication.

This publication, without the prior permission of the European Space Agency and provided that it is not used for a commercial purpose, may be:

- copied in whole in any medium without alteration or modification.

 copied in part, in any medium, provided that the ESCC document identification, comprising the ESCC symbol, document number and document issue, is removed.



PAGE 2	
--------	--

ISSUE 2

### **DOCUMENTATION CHANGE NOTICE**

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

DCR No.	CHANGE DESCRIPTION
257	Specification upissued to incorporate technical and editorial changes per DCR.
:	
1	



PAGE 3 ISSUE 2

### **TABLE OF CONTENTS**

	CENERAL	<u>Page</u> <b>5</b>
1.	GENERAL	_
1.1	Scope	5 5
1.2	Component Type Variants	5
1.3	Maximum Ratings	5
1.4	Parameter Derating Information	5
1.5	Physical Dimensions	5
1.6 1.7	Functional Diagram High Temperature Test Precautions	5
2.	APPLICABLE DOCUMENTS	5
3.	TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS	11
4.	REQUIREMENTS	11
4.1	General	11
4.2	Deviations from Generic Specification	11
4.2.1	Deviations from Special In-process Controls	11
4.2.2	Deviations from Final Production Tests (Chart II)	11
4.2.3	Deviations from Burn-in and Electrical Measurements (Chart III)	11
4.2.4	Deviations from Qualification Tests (Chart IV)	12
4.2.5	Deviations from Lot Acceptance Tests (Chart V)	12
4.3	Mechanical Requirements	12 12
4.3.1	Dimension Check	12
4.3.2	Weight	12
4.3.3	Terminal Strength	12
4.4	Materials and Finishes	13
4.4.1	Case	13
4.4.2	Lead Material and Finish	13
4.5	Marking	13
4.5.1	General	13
4.5.2	Lead Identification	13
4.5.3	The ESCC Component Number	13
4.5.4	Traceability Information	13
4.5.5	Marking of Small Components	14
4.6	Electrical Measurements	14
4.6.1	Electrical Measurements at Room Temperature	14
4.6.2	Electrical Measurements at High and Low Temperatures	14
4.6.3	Circuits for Electrical Measurements	•



PAGE 4 ISSUE 2

		<u>Page</u>
4.7	Burn-in Tests	14
4.7.1	Parameter Drift Values	14
4.7.2	Conditions for Burn-in	14
4.7.3	Electrical Circuits for Burn-in	14
4.8	Environmental and Endurance Tests (Charts IV and V of ESCC Generic Specification No. 5000)	17
4.8.1	Flectrical Measurements on Completion of Environmental Tests	17
4.8.2	Electrical Measurements at Intermediate Points and on Completion of Endurance Tests	17
4.8.3	Conditions for Operating Life Tests (Part of Endurance Testing)	17
4.8.4	Electrical Circuits for Operating Life Tests	17
4.8.5	Conditions for High Temperature Storage Test (Part of Endurance Testing)	17
TABL	<u>ES</u>	
1(a)	Type Variants	6
1(b)	Maximum Ratings	8
2	Electrical Measurements at Room Temperature (d.c. and a.c. Parameters)	15 16
3	Electrical Measurements at High and Low Temperatures	16
4	Parameter Drift Values	16
5	Conditions for Burn-in	18
6	Electrical Measurements at Intermediate Points and on Completion of Endurance Testing	10
FIGU	RES	
	Perameter Perating Information	9
1	Parameter Derating Information Physical Dimensions	10
2 3	Functional Diagram	10
3 4	Test Circuits	15
4 5	Flectrical Circuit for Burn-in	16

APPENDICES (Applicable to specific Manufacturers only)
None.



PAGE

5

ISSUE 2

### 1. GENERAL

### 1.1 <u>SCOPE</u>

This specification details the ratings, physical and electrical characteristics, test and inspection data for Diodes, Voltage Regulator, based on Series BZX 85.

It shall be read in conjunction with ESCC Generic Specification No. 5000, the requirements of which are supplemented herein.

### 1.2 <u>COMPONENT TYPE VARIANTS</u>

Variants of the basic diodes specified herein, which are also covered by this specification, are given in Table 1(a).

### 1.3 MAXIMUM RATINGS

The maximum ratings, which shall not be exceeded at any time during use or storage, applicable to the diodes specified herein, are scheduled in Table 1(b).

### 1.4 PARAMETER DERATING INFORMATION

The derating information applicable to the diodes specified herein is shown in Figure 1.

### 1.5 PHYSICAL DIMENSIONS

The physical dimensions of the diodes specified herein are shown in Figure 2.

### 1.6 FUNCTIONAL DIAGRAM

The functional diagram, showing lead identification, of the diodes specified herein, is shown in Figure 3.

### 1.7 <u>HIGH TEMPERATURE TEST PRECAUTIONS</u>

For tin-lead plated or solder-dipped lead finish, all tests to be performed at a temperature that exceeds +125°C shall be carried out in a 100% inert atmosphere.

### 2. APPLICABLE DOCUMENTS

The following documents form part of this specification and shall be read in conjunction with it:

- (a) ESCC Generic Specification No. 5000 for Discrete Semiconductors.
- (b) MIL-STD-750, Test Methods and Procedures for Semiconductor Devices.

	-				
		4	a I		
	-				
		Ĭ	A		
	7		f		
ŀ		A			
l				4	
			Total C		
			, <sup>1</sup>		
l					
Ì		7. 31.			
				-	

က

ISSUE

9

PAGE

## TABLE 1(a) - TYPE VARIANTS

=					***			_													-	7		_			$\neg$	
Lead Material	and Finish	(14)	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	C3 or C4	
7.4	(mA)	(13)	1.0	1.0			0.1	10	1.0	1.0	1.0	0.	0	. C	2 0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.0	0.5	0.25	
7~	_k (max. വ)	(12)	400	400	0 0	9 6	200	200		200	400	300	300		200	200	200	300	320	400	200	200	500	900	009	900	750	
	0.01	2 (-	300	300		000	2 2	3 5	2 5	2 5	2 5	2 5	2 6	3 5	2 \$	2 5	2 5	2 0	2 2	10	2 6	2 6	Ę	2 5	2 5	2 5	5 6	<u> </u>
	'R (дд)	(11)	Max.	=	=	: =	: =	=	=	=	=	=	-	=	=	=	:	<u> </u>	:	=	=	=	-	=	=	=	=	
-	IR (max. μA)	(10)	150	8 9	nn!	40	02 S	2	0.0	0.0 7	) ·	0. 0	2	0.6	0.5	0.0	0. 6	0 0		2 6	5 6	0.0	2.5	0.0	. i	ני נ	C. O	0.0
	£S.	(6)	5		0.	1.0	0. 9	0.1	0.6	0. 1	c	2.0	3.0	0.4	4.5	6.2	1 02	ς, (3	× ×	- n (	2 ;	= \$	7 5	2 1	ر د	9 9	æ 8	ΩZ
	Z <sub>Zmax</sub> (Ω)	(8)	9	20	8	ଛ	8	15	က	<u> </u>	10	7.0	4.0	3.5	3.0 0.0	2.0	2.0	9.	ж Э (		2 ; —	<u>ရ</u>	2	g ;	54	52	K 8	30
	l <sub>Zmax</sub> (mA)	6	0.50	3/0	340	320	290	580 280	220	215	200	190	170	155	140	130	120	105	97	80 i	₽ i	7	8	62	29	25	47	41
	lz (mA)	(9)		08	8	8	09	90	20	45	45	45	35	35	35	22	25	25	20	50	50	15	15	15	9	9	우	8.0
	V <sub>Z</sub> Max. V	(5)	(2)	2.9	3.2	3.5	3.8	4.1	4.6	5.0	5.4	9.0	9.9	7.2	7.9	8.7	9.6	10.6	11.6	12.7	14.1	15.6	17.1	19.1	21.2	23.3	25.6	28.9
	V <sub>Z</sub> Min. V	( <del>)</del>	È	2.5	2.8	3.1	3.4	3.7	4.0	4.4	4.8	5.2	5.8	6.4	7.0	7.7	8.5	9.4	10.4	11.4	12.4	13.8	15.3	16.8	18.8	20.8	22.8	25.1
	V <sub>Z</sub> Nom. V	(6)	(0)	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	8.9	7.5	8.2	9.1	10	11	12	13	15	16	18	20	52	24	27
	Based	3 6	(Z)	BZX 85 - C2V7	ά	BZX 85 - C3V3		BZX 85 - C3V9	88	8	85 -	BZX 85 - C5V6	BZX 85 - C6V2	B7X 85 - C6V8	BZX 85 - C7V5	BZX 85 - C8V2	BZX 85 - C9V1	BZX 85 - C10	BZX 85 - C11	BZX 85 - C12	BZX 85 - C13	BZX 85 - C15	BZX 85 - C16		B7X 85 - C20	BZX 85 - C22	BZX 85 - C24	85 -
	Variant	3	(1)			3 8			Т					Т			4				18	19	20	21	6	8	24	25

	y	
l	y)	ļ
l		
I		

ISSUE 3

PAGE

# TABLE 1(a) - TYPE VARIANTS (Cont'd)

	VZ Nom. V	Vz Min. V	V <sub>Z</sub> Max. V	ry (mA)	Zmax (mA)	Zmax (Ω)	S.	IR (max. µA)	ا (JuA) Tamh = +150°C	2K (max. Ω)	(mA)	and Finish
(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
╀	30	28	32	8.0	36	30	22	0.5	Max. 10	1000	0.25	C3 or C4
B7X 85 - C33	3 6	. F.	35	8.0	33	35	24	0.5	10	1000	0.25	C3 or C4
	8 %	. 4 <u>6</u>	88	8.0	3 %	4	27	0.5	10	1000	0.25	C3 or C4
	8 68	37	. 14	6.0	28	50	30	0.5	10	1000	0.25	C3 or C4
	43	. 4	46	0.9	56	20	33	0.5	10	1000	0.25	C3 or C4
_	47	44	50	4.0	23	06	36	9.0	10	1500	0.25	C3 or C4
	21	48	54	4.0	21	115	33	0.5	10	1500	0.25	C3 or C4
	56	52	09	4.0	19	120	43	0.5	10	2000	0.25	C3 or C4
	62	28	99	4.0	16	125	47	0.5	10	2000	0.25	C3 or C4
	89	64	72	4.0	15	130	51	0.5	10	2000	0.25	C3 or C4
╁	75	20	80	4.0	14	135	99	9.0	10	2000	0.25	C3 or C4
	82	77	87	2.7	12	200	62	0.5	10	3000	0.25	C3 or C4
	91	82	96	2.7	10	250	89	0.5	10	3000	0.25	C3 or C4
_	100	96	106	2.7	9.4	350	75	0.5	10	3000	0.25	C3 or C4
_	110	104	116	2.7	8.6	450	82	0.5	10	4000	0.25	C3 or C4
+_	120	114	127	2.0	7.8	550	91	0.5	" 10	4500	0.25	C3 or C4
	130	124	141	2.0	7.0	700	100	0.5	10	2000	0.25	C3 or C4
	150	. 65	156	2.0	6.4	1000	110	0.5	10	0009	0.25	C3 or C4
	160	153	171	1.5	5.8	1100	120	0.5	- 10	9200	0.25	C3 or C4
	180	168	191	1.5	5.2	1200	130	0.5	10	7000	0.25	C3 or C4
╁	200	188	212	1.5	4.7	1500	150	0.5	10	8000	0.15	C3 or C4



PAGE 8

ISSUE 2

### TABLE 1(b) - MAXIMUM RATINGS

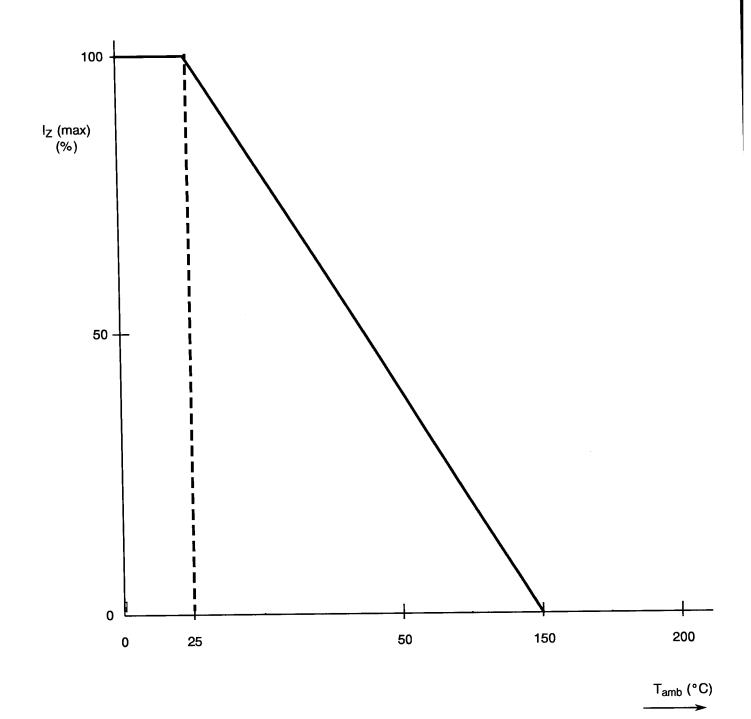
No.	CHARACTERISTICS	SYMBOL	MAXIMUM RATINGS	UNIT	REMARKS
1	Power Dissipation	P <sub>tot</sub>	1.3	W	T <sub>amb</sub> ≤ +25°C See Note
2	Operating Temperature Range	Тор	- 55 to + 150	°C	T <sub>amb</sub>
3	Storage Temperature Range	T <sub>stg</sub>	-65 to +150	°C	
4	Soldering Temperature	T <sub>sol</sub>	+ 260	°C	Time: ≤10 seconds; Distance from case: ≥ 1.5mm

 $<sup>\</sup>frac{\text{NOTES}}{\text{1.}} \hspace{0.2in} \textbf{The leads shall be maintained at ambient temperature 4.0mm from the body.}$ 



PAGE 9 ISSUE 2

### FIGURE 1 - PARAMETER DERATING INFORMATION



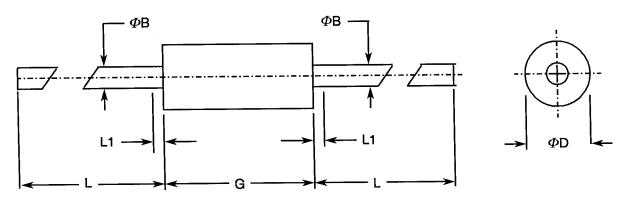
Maximum Working Current (I<sub>7</sub> max) versus Temperature



PAGE 10

ISSUE 2

### FIGURE 2 - PHYSICAL DIMENSIONS



Millimetre dimensions are derived from basic inch dimensions.

0)44501	INC	-IES	MILLIM	ETRES	NOTES
SYMBOL	MIN.	MAX.	MIN.	MAX.	NOTES
ΦВ	.028	.034	.712	.863	-
ΦВ	.080	.107	2.04	2.71	1
G	.142	.205	3.60	5.20	1
L	1.10	-	28.0	-	-
L1	-	.050	-	1.27	2

### **NOTES**

- 1. Package contour optional within cylinder of diameter  $\Phi D$  and length G. Slugs, if any, shall be included within this cylinder but shall not be subject to the minimum limit of  $\Phi D$ .
- 2. Lead diameter not controlled in this zone to allow for flash, lead finish build-up, and minor irregularities other than slugs.

### FIGURE 3 - FUNCTIONAL DIAGRAM

- 1. Anode
- 2. Cathode



### **NOTES**

1. The cathode end shall be marked with a coloured ring.



PAGE 11

ISSUE 2

### 3. TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic Specification No. 21300 shall apply.

### 4. REQUIREMENTS

### 4.1 GENERAL

The complete requirements for procurement of the diodes specified herein are stated in this specification and ESCC Generic Specification No. 5000 for Discrete Semiconductors. Deviations from the Generic Specification applicable to this specification only, are listed in Para. 4.2.

Deviations from the applicable Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirements and do not affect the components' reliability, are listed in the appendices attached to this specification.

### 4.2 <u>DEVIATIONS FROM GENERIC SPECIFICATION</u>

### 4.2.1 Deviations from Special In-process Controls

Not applicable.

### 4.2.2 <u>Deviations from Final Production Tests (Chart II)</u>

- (a) Bond Strength Test: Shall not be performed.
- (b) Die Shear Test: Shall not be performed.
- (c) Particle Impact Noise Detection (PIND) Test: Not applicable.

### 4.2.3 Deviations from Burn-in and Electrical Measurements (Chart III)

- (a) H.T.R.B. Test: Shall not be performed.
- (b) Radiographic Inspection: Not applicable.



PAGE 12

ISSUE 2

### 4.2.4 Deviations from Qualification Tests (Chart IV)

- (a) Bond Strength Test: Shall not be performed.
- (b) Die Shear Test: Shall not be performed.

### 4.2.5 <u>Deviations from Lot Acceptance Tests (Chart V)</u> None.

### 4.3 MECHANICAL REQUIREMENTS

### 4.3.1 Dimension Check

The dimensions of the diodes specified herein shall be checked. They shall conform to those shown in Figure 2.

### 4.3.2 Weight

The maximum weight of the diodes specified herein shall be 0.5 grammes.

### 4.3.4 Terminal Strength

The requirements for terminal strength testing are specified in Section 9 of ESCC Generic Specification No. 5000. The test conditions shall be as follows:-

Test Condition:

′Α′.

Applied Force :

5.0 Newtons.

Duration

10 seconds

### 4.4 MATERIALS AND FINISHES

The materials and finishes shall be as specified herein. Where a definite material is not specified, a material which will enable the diodes specified herein to meet the performance requirements of this specification shall be used. Acceptance or approval of any constituent material does not guarantee acceptance of the finished product.



PAGE 13

ISSUE 2

### 4.4.1 Case

Glass, hermetically sealed.

### 4.4.2 Lead Material and Finish

The lead material shall be Type 'C' with Type '3 or 4' finish in accordance with the requirements of ESCC Basic Specification No. 23500.

### 4.5 MARKING

### 4.5.1 General

The marking of all components delivered to this specification shall be in accordance with the requirements of ESCC Basic Specification No. 21700. Each component shall be marked in respect of:-

- (a) Lead Identification.
- (b) The ESCC Component Number.
- (c) Traceability Information.

### 4.5.2 Lead Identification

Lead identification shall be as shown in Figures 2 and 3 of this specification.

### 4.5.3 The ESCC Component Number

Each component shall bear the ESCC Component Number which shall be constituted and marked as follows:

Detail Specification Number	
Type Variant (see Table 1(a)) ——	
Testing Level (B or C, as applicable)	

### 4.5.4 Traceability Information

Each component shall be marked in respect of traceability information in accordance with the requirements of ESCC Basic Specification No. 21700.

### 4.5.5 Marking of Small Components

When it is considered that the component is too small to accommodate the marking as specified above, as much as space permits shall be marked. The order of precedence shall be as follows:-



PAGE 14

ISSUE 2

- (a) Lead Identification.
- (b) The ESCC Component Number.
- (c) Traceability Information.

The marking information in full shall accompany each component in its primary package.

### 4.6 ELECTRICAL MEASUREMENTS

### 4.6.1 <u>Electrical Measurements at Room Temperature</u>

The parameters to be measured at room temperature are scheduled in Table 2. The measurements shall be performed at  $T_{amb} = +22 \pm 3$  °C.

### 4.6.2 <u>Electrical Measurements at High and Low Temperatures</u>

The parameters to be measured at high and low temperatures are scheduled in Table 3.

### 4.6.3 <u>Circuits for Electrical Measurements</u>

Circuits for use in performing the electrical measurements listed in Tables 2 and 3 of this specification are shown in Figure 4.

### 4.7 BURN-IN TESTS

### 4.7.1 Parameter Drift Values

The parameter drift values applicable to burn-in are specified in Table 4 of this specification. Unless otherwise stated, the measurements shall be performed at  $T_{amb}$  = +22±3 °C. The parameter drift value ( $\Delta$ ) applicable to the parameters scheduled, shall not be exceeded. In addition to these drift value requirements, the appropriate limit value specified for a given parameter in Table 2 shall not be exceeded.

### 4.7.2 Conditions for Burn-in

The requirements for burn-in are specified in Section 7 of ESCC Generic Specification No. 5000. The conditions for burn-in shall be as specified in Table 5 of this specification.

### 4.7.3 Electrical Circuits for Burn-in

Circuits for use in performing the burn-in tests are shown in Figure 5 of this specification.



PAGE 15

ISSUE 2

### TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE - d.c. PARAMETERS

	CHARACTERISTICS	CVMDOL	SPEC. AND	TEST CONDITION	LIM	ITS	UNIT
No.	CHARACTERISTICS	SYMBOL	MIL-STD-750	TEST CONDITION	MIN.	MAX.	ONIT
1	Zener Voltage	Vz	Method 4022	I <sub>Z</sub> = (1) mA	(2)	(3)	٧
2	Reverse Current	I <sub>R</sub>	Method 4016	V <sub>R</sub> = (4) V	_	(5)	μA

### **NOTES**

- 1. See Column 6 of Table 1(a).
- 2. See Column 4 of Table 1(a).
- 3. See Column 5 of Table 1(a).
- 4. See Column 9 of Table 1(a).
- 5. See Column 10 of Table 1(a).

### a.c. PARAMETERS

No.	CHARACTERISTICS	SYMBOL	SPEC. AND TEST METHOD MIL-STD-750	TEST CONDITION	LIMITS		UNIT
				TEST CONDITION	MIN.	MAX.	ONIT
1	Small Signal Breakdown Impedance	Z <sub>Z</sub>	4051	I <sub>Z</sub> = (1)	-	(2)	Ω
2	Knee Impedance	Z <sub>K</sub>	4051	I <sub>ZK</sub> = (4)	-	(3)	Ω

### **NOTES**

- 1. See Column 6 of Table 1(a).
- 2. See Column 8 of Table 1(a).
- 3. See Column 12 of Table 1(a).
- 4. See Column 13 of Table 1(a).

### **FIGURE 4 - TEST CIRCUITS**

Not applicable.



PAGE 16

ISSUE 2

### TABLE 3 - ELECTRICAL MEASUREMENTS AT HIGH AND LOW TEMPERATURES

No.	CHARACTERISTICS	SYMBOL	SPEC. AND TEST METHOD MIL-STD-750	TEST CONDITIONS	LIMITS		UNIT
					MIN.	MAX.	OIVIT
1	Reverse Current	I <sub>R</sub>	Method 4016.2	T <sub>amb</sub> = +150°C V <sub>R</sub> = (1)	-	(2)	nA

### **NOTES**

- 1. See Column 9 of Table 1(a).
- 2. See Column 11 of Table 1(a).

### **TABLE 4 - PARAMETER DRIFT VALUES**

No.	CHARACTERISTICS	SYMBOL	SPEC. AND TEST METHOD	TEST CONDITIONS	CHANGE LIMITS (Δ)	UNIT
1	Zener Voltage	Vz	Method 4022	I <sub>Z</sub> = (1) mA	±5.0	%
2	Reverse Current	I <sub>R</sub>	Method 4016	V <sub>R</sub> = (2)	± 100 or (3) 100	% nA

### NOTES

- 1. See Column 6 of Table 1(a).
- 2. See Column 9 of Table 1(a).
- 3. Whichever is greater.

### **TABLE 5 - CONDITIONS FOR BURN-IN**

No.	CHARACTERISTIC	SYMBOL	CONDITION	UNIT
1	Ambient Temperature	T <sub>amb</sub>	+25 (See Note , Table 1(b))	ô
2	Working Current	I <sub>Zmax</sub>	See Table 1(a), Column 7	mA

### FIGURE 5 - ELECTRICAL CIRCUIT FOR BURN-IN

Not applicable.



PAGE 17

ISSUE

### 4.8 <u>ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION NO. 5000)</u>

### 4.8.1 <u>Electrical Measurements on Completion of Environmental Tests</u>

The parameters to be measured on completion of environmental tests are scheduled in Table 2. The measurements shall be performed at  $T_{amb}$  = +22 ±3 °C.

### 4.8.2 Electrical Measurements at Intermediate Points and on Completion of Endurance Tests

The parameters to be measured at intermediate points and on completion of endurance testing are scheduled in Table 6.

### 4.8.3 Conditions for Operating Life Tests (Part of Endurance Testing)

The requirements for operating life testing are specified in Section 9 of ESCC Generic Specification No. 5000. The conditions for operating life testing shall be the same as specified in Table 5 for the burn-in test.

### 4.8.4 Electrical Circuits for Operating Life Tests

The circuit to be used for performance of the operating life test shall be the same as shown in Figure 5 for burn-in.

### 4.8.5 Conditions for High Temperature Storage Test (Part of Endurance Testing)

The requirements for the high temperature storage test are specified in ESCC Generic Specification No. 5000. The temperature to be applied shall be the maximum storage temperature specified in Table 1(b) of this specification.



PAGE 18

ISSUE 2

### TABLE 6 - ELECTRICAL MEASUREMENTS AT INTERMEDIATE POINTS AND ON COMPLETION OF ENDURANCE TESTING

No.	CHARACTERISTICS	SYMBOL	SPEC. AND TEST METHOD	TEST CONDITIONS	LIMITS		UNIT
					MIN.	MAX.	OIVIT
1	Zener Voltage	V <sub>Z</sub>	MIL-STD-750 Method 4022	I <sub>Z</sub> = (1)	(2)	(3)	V
2	Reverse Current	I <sub>R</sub>	MIL-STD-750 Method 4016	V <sub>R</sub> = (4)	-	(5)	μА

### **NOTES**

- 1. See Column 6 of Table 1(a).
- 2. See Column 4 of Table 1(a).
- 3. See Column 5 of Table 1(a).
- 4. See Column 9 of Table 1(a).
- 5. See Column 10 of Table 1(a).