

Rectifier Diode

W1185LC300 to W1185LC450

The data sheet on the subsequent pages of this document is a scanned copy of existing data for this product.

(Rating Report 87NR6 Issue 1)

This data reflects the old part number for this product which is: SW38-44CXC515. This part number must **NOT** be used for ordering purposes – please use the ordering particulars detailed below.

The limitations of this data are as follows:
No reverse recovery information available

Please use the following link to view an up to date outline drawing for this device
[Outline W4](#)



Where any information on the product matrix page differs from that in the following data, the product matrix must be considered correct

An electronic data sheet for this product is presently in preparation.

For further information on this product, please contact your local ASM or distributor.

Alternatively, please contact Westcode as detailed below.

Ordering Particulars			
W1185	LC	◆◆	0
Fixed Type Code	Fixed Outline Code	Voltage code V _{DRM} /100 30-45	Fixed Code
Typical Order Code: W1185LC320, 27mm clamp height, 3200V V _{RRM}			

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QUALITY EVALUATION LABORATORY

Rating Report: 87NR6

Date: 27th March, 1987

Pages: 10

Diode Type SW38-44XC515

Written by: *M.W. Jundup*

Checked: *M.W. Jundup*

Approved: *[Signature]*

This diode consists of an all diffused 38 mm diameter silicon slice mounted in a cold weld capsule housing.

This Report supersedes Rating Report No. 78NR15.

Ratings

Voltage Grades	:	38-44
V_{RSM}	:	3900-4500V
V_{RRM}	:	3800-4400V
$I_{F(AV)}$: Single Phase; 50 Hz, 180° half sinewave;		
Double side cooled $T_{HS} = 55^{\circ}C, 100^{\circ}C$:	1186, 833A
Single side cooled $T_{HS} = 100^{\circ}C$:	528A
I_F (rms) max.)		
) Double side cooled $T_{HS} = 25^{\circ}C$:	2171A
I_F max.)	:	1936A
I_{FSM} : t = 10ms half sinewave; T_J (initial) = 180°C;		
$V_{RM} = 0.6 V_{RRM}(Max)$:	9200A
I_{FSM} ; t = 10ms half sinewave; T_J (initial) = 180°C; $V_{RM} \leq 10V$:	10,580A
I^2t : t = 10ms; T_J (initial) = 180°C; $V_{RM} = 0.6 V_{RRM}(Max)$:	$0.423 \times 10^6 A^2 SECS$
I^2t : t = 10ms; T_J (initial) = 180°C; $V_{RM} \leq 10V$:	$0.559 \times 10^6 A^2 SECS$
I^2t : t = 3ms; T_J (initial) = 180°C; $V_{RM} \leq 10V$:	$0.416 \times 10^6 A^2 SECS$
T_{HS} Operating range	:	-55 to +160°C
T_{stg} ; Non-operating	:	-55 to +185°C

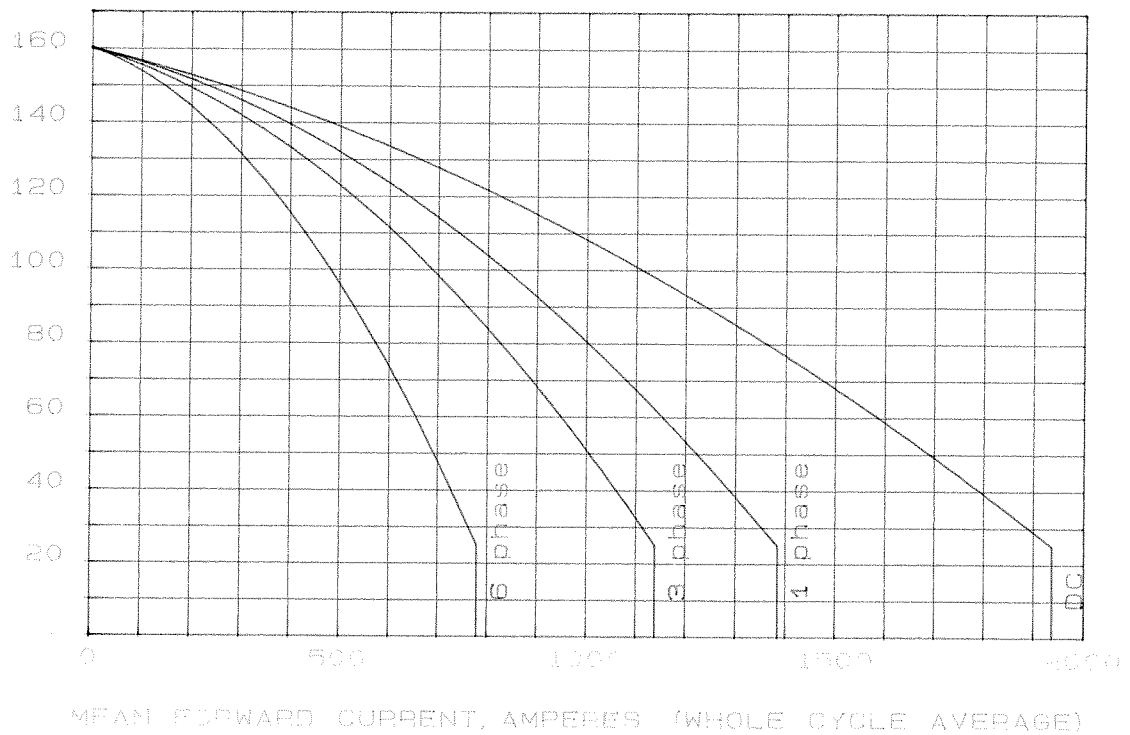
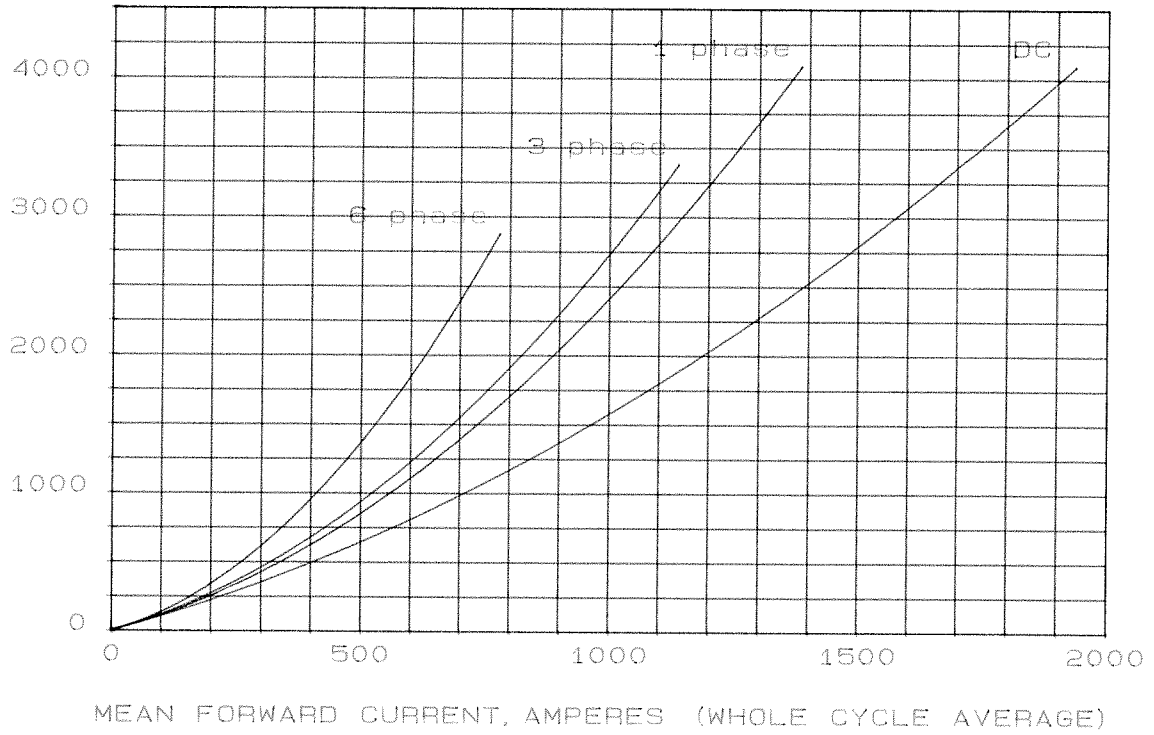
Voltage Ratings

Voltage Class SW	V _{RRM}	V _{RSM} V
38	3800	3900
40	4000	4100
42	4200	4300
44	4400	4500

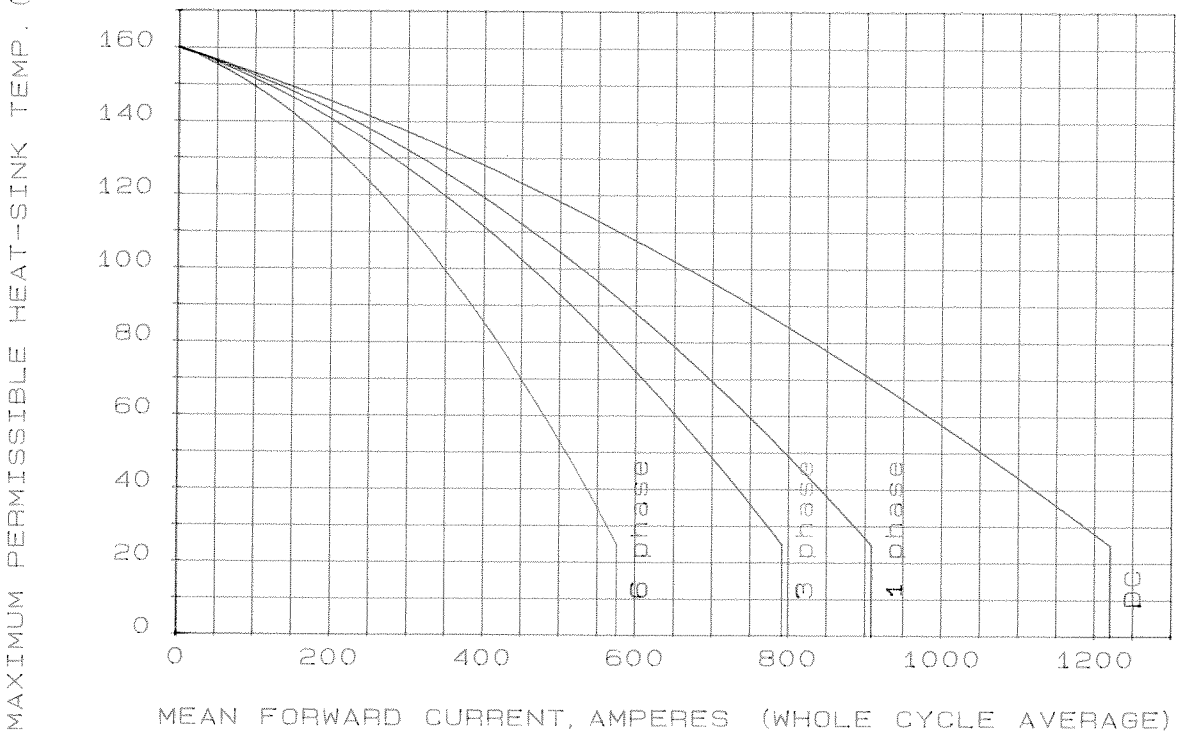
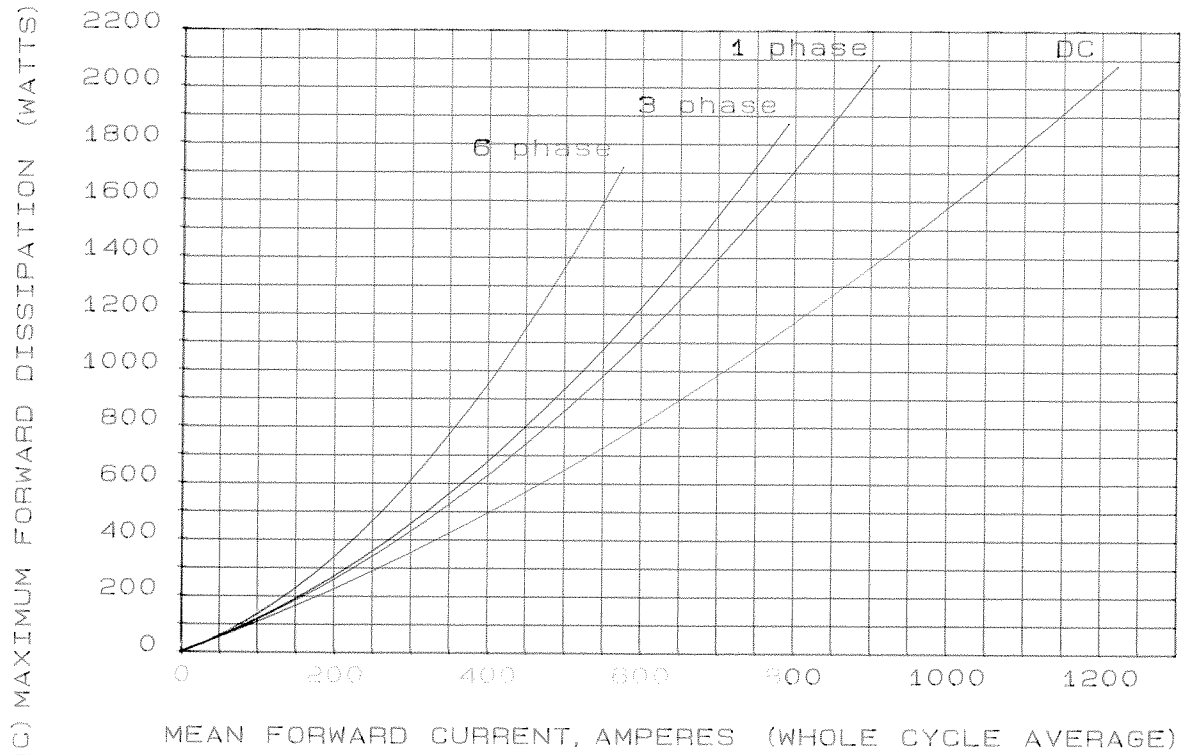
This report is applicable to higher or lower voltage grades when supply has been agreed by Sales/Production.

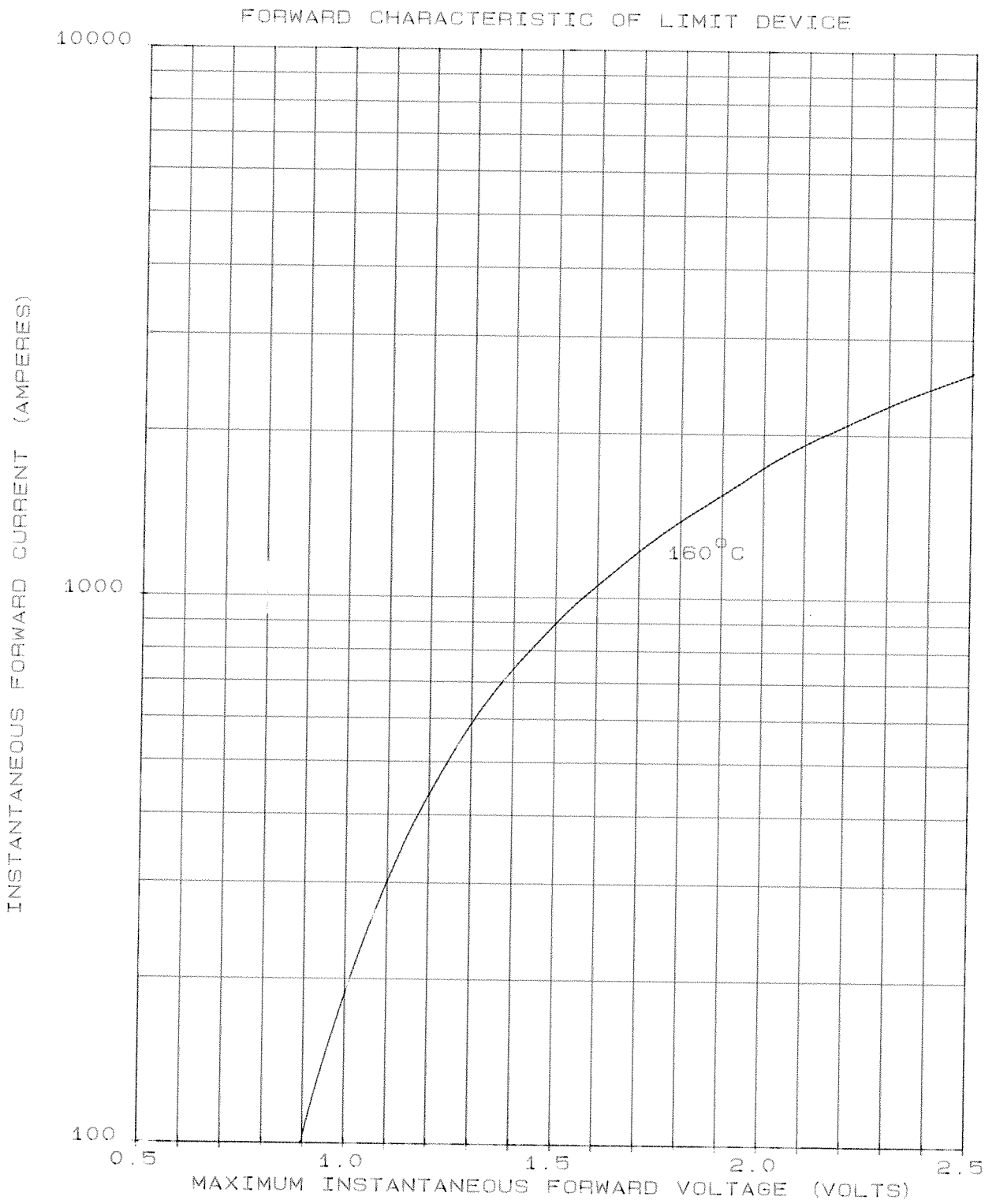
DOUBLE SIDE COOLED

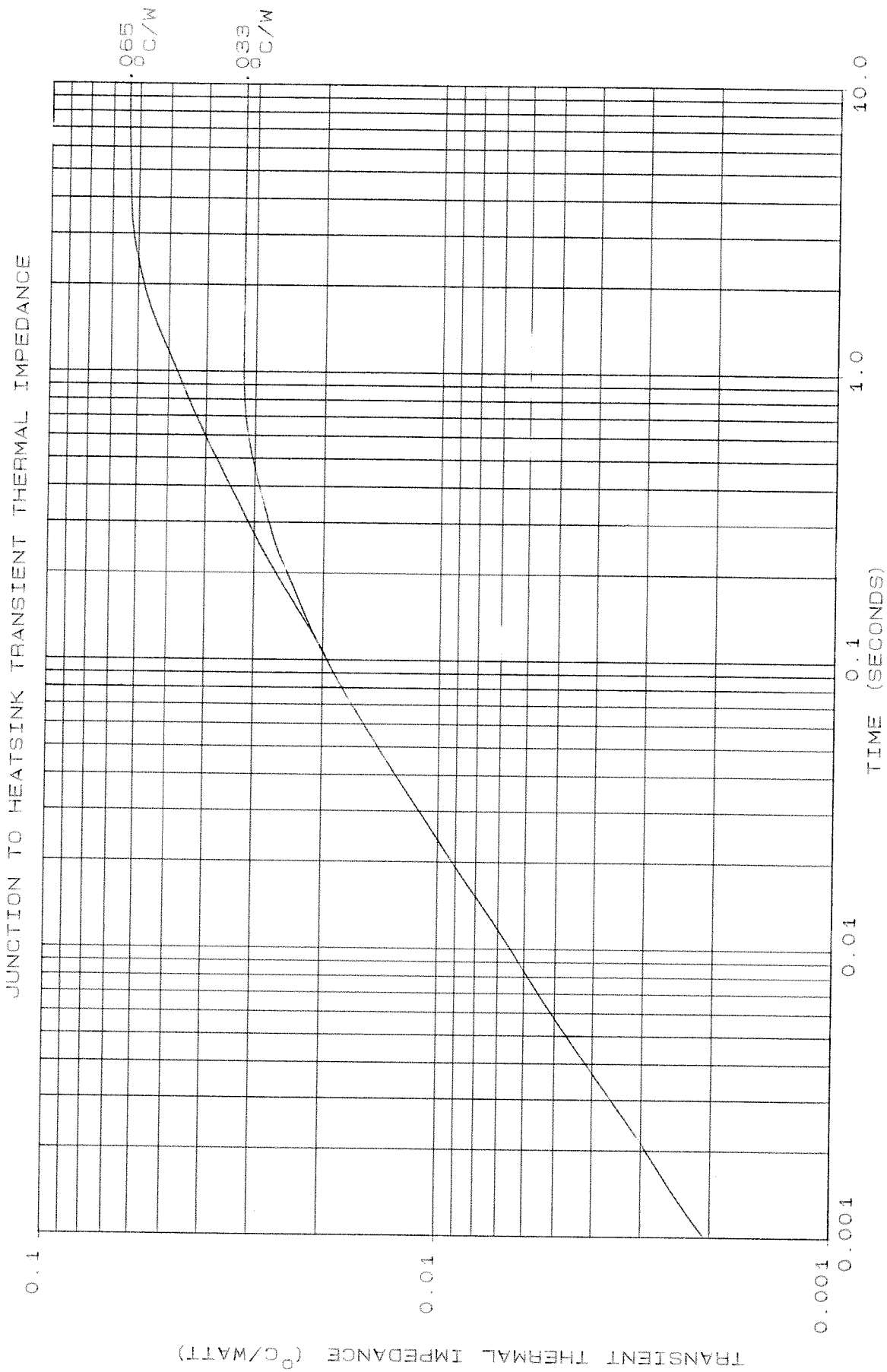
MAXIMUM PERMISSIBLE HEAT-SINK TEMP. (DEGC) MAXIMUM FORWARD DISSIPATION (WATTS)



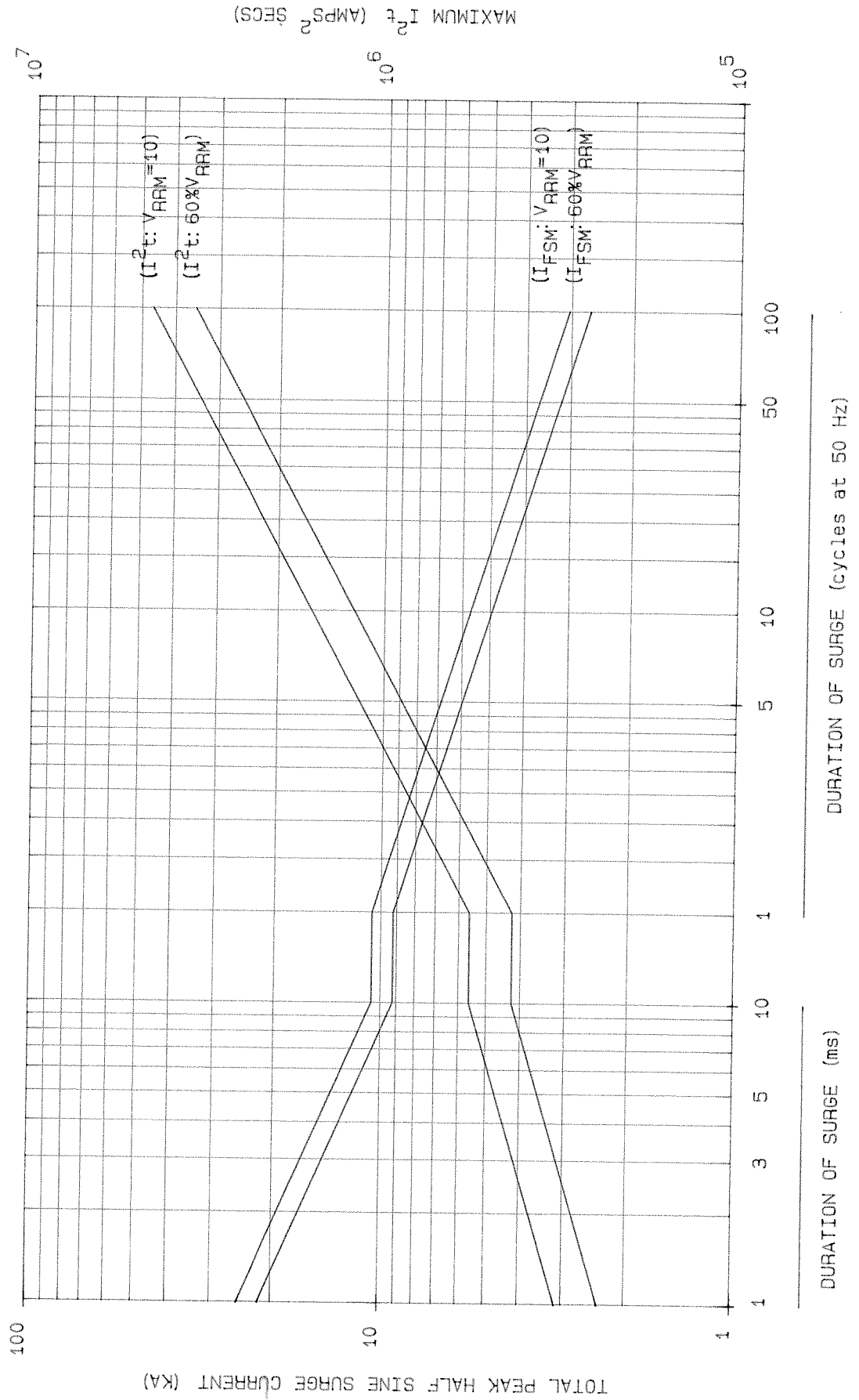
SINGLE SIDE COOLED







MAXIMUM NON REPETITIVE SURGE CURRENT AT INITIAL JUNCTION TEMPERATURE 160°C



SCALE	1/1
DRN	<i>[Signature]</i>
CHKD	<i>[Signature]</i>
APPD	
GEC-1	
CS	1
QA	1
LP	2
HP	2
A	
S	NI

INTERNATIONAL OUTLINE No. **DO-200AB**

WEIGHT. **340 GRAMS.**

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FINISH. **ET TO BS 1872**

DEVICE MARKING INCLUDES MONOGRAM, TYPE No., SPEC. No. AND POLARITY SYMBOL.

DEVICE MOUNTING: CLAMPING FORCE :
1000 - 2000 kgf.

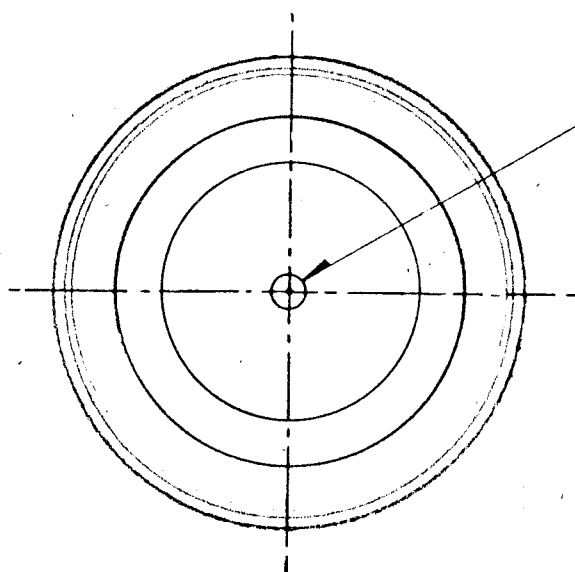
CXC 935
CXC 805
CXC 635
CXC 595
CXC 515

TYPE NUMBER

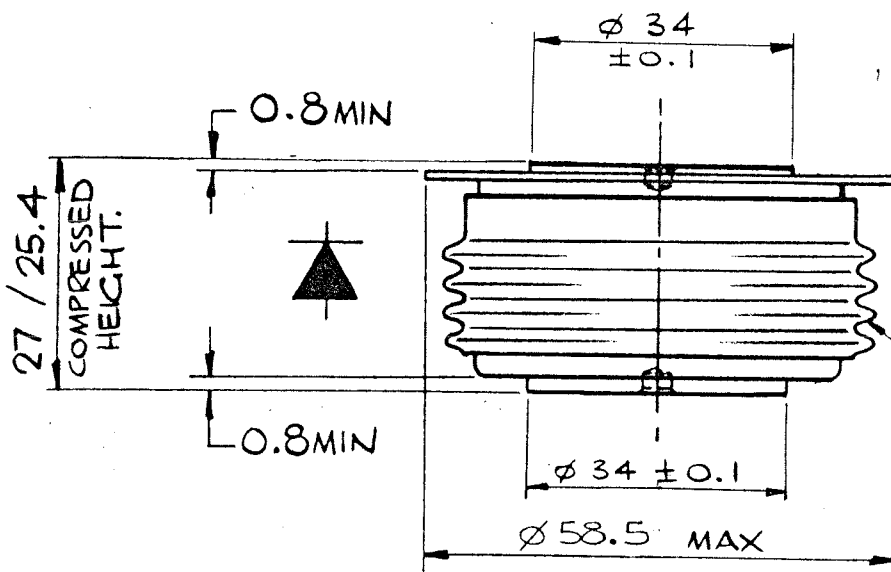
CXC 220
CXC 224
CXC 474
CXC 524
CXC 724

CLAMPING FORCE TO BE APPLIED ON ϕ OF LOCATION HOLES & BE EVENLY DISTRIBUTED OVER AREA OF CONTACT. FLATNESS TOL ON SURFACES TO WHICH DEVICE IS CLAMPED TO BE 0.04 WIDE.

G.A. DRG. No. **159B100H204**



$\phi 3.6/3.5 \times 1.9$ MIN
DEPTH 2-HOLES.
ONE IN CATHODE
AND ONE IN ANODE.



CREEP PATH
25 MIN.

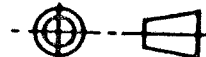
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WESTCODE[®]
SEMICONDUCTORS

THIRD ANGLE PROJECTION



DIMNS. IN MILLIMETRES

DRG. No.

100A243

ISS	REVISIONS	
1	7.9.77 P188	
2	P304 15.5.78 $\phi 34$ WAS $\phi 38$. 1.9 MIN WAS 3 MIN. 0.8 MIN WAS 0.5 & 1.5 MIN. <i>[Signature]</i>	
3	12.9.78 $\phi 58.5$ WAS $\phi 60$. CLAMP FORCE WAS 1000-1800 kgf. <i>[Signature]</i>	
4	12.10.78 TYPE N° ADDED <i>[Signature]</i>	