# Rectifier Diode Stud Types W0628S/RX040 to W0628S/RX150

The data sheet on the subsequent pages of this document is a scanned copy of existing data for this product. (Rating Report 87NR27 Issue 1)

This data reflects the old part number for this product which is: SW02-15PHN/R400. This part number must <u>NOT</u> be used for ordering purposes – please use the ordering particulars detailed below.

> The limitations of this data are as follows: Only SA outline drawing (W23) in datasheet No reverse recovery information available Device no longer available for grade 02 (200V V<sub>RRM</sub>/V<sub>DRM</sub>)

The following links will direct you to the appropriate outline drawings <u>Outline W23</u> – ¾" Glass and metal stud <u>Outline W27</u> – ¾" Glass and metal stud removed

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				
W0628	S/RX	<b>*</b>	0	
Fixed Type Code	S/RA – ¾" Glass and metal stud S/RB – ¾" Glass and metal stud removed	Voltage code V <sub>RRM</sub> /100 04-15	Fixed Code	

Typical Order Code: W0628SA060, Normal polarity 3/4" Glass and metal stud, 600V VRRM/VDRM

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C Westcode Semiconductors Ltd.

In the interest of product improvement, Westcode reserves the right to change specifications at any time without prior notice.

Devices with a suffix code (2-letter, 3-letter or letter/digit/letter combination) added to their generic code are not necessarily subject to the conditions and limits contained in this report.

### QUALITY EVALUATION LABORATORY

Rating Report: 87NR27 Origin:

Date: 23rd November, 1987 Pages: 9

Diode Type SW02-15PHN/R400

Written by: MMM Junlip Checked: MW.) Approved:

This diode consists of a diffused 24 mm diameter silicon slice mounted under spring pressure in a stud base, top-hat housing with a flexible lead.

This Report supersedes Rating Report No. 79NR15

Ratings

Voltage Grades

V<sub>RSM</sub>

V<sub>RRM</sub>

:02-15 :300-1600V

:200-1500V

<sup>I</sup>F(AV): Single phase; 50 Hz, 180<sup>°</sup> half sinewave,  $T_{C} = 120^{\circ}C$  : 400A IF(rms) max. : 628A I<sub>F d.c. max.</sub> <sup>I</sup>FSM : t = 10 ms half sinewave; <sup>T</sup>J (initial) =  $190 \circ C$  ; <sup>V</sup>RM =  $0.6V_{RRM}(MAX)$  :7500A : 628A  $I_{FSM}$ : t = 10 ms half sinewave;  $T_J$  (initial) = 190°C ;  $V_{RM}$  = 10V : 8250A  $I^{2}t : t = 10 \text{ ms}; ^{T}J \text{ (initial)} = 190 ^{\circ}C; ^{V}RM = 0.6V_{RRM}(MAX) : 0.28 \times 10^{6}A^{2}s$  $I^{2}t : t = 10 \text{ ms}; T_{J} \text{ (initial)} = 190^{\circ}C; V_{RM} \gtrsim 10V$  $: 0.34 \times 10^{6} \text{A}^{2} \text{s}$  $I^{2}t : t = 3 ms; ^{T}J (initial) = 190^{\circ}C; V_{RM} \not \simeq 10V$ : 0.25 x 10<sup>6</sup>A<sup>2</sup>S T<sub>C</sub> Operating Range : -40 to +190°C T<sub>stg</sub> Non-operating : -40 to +200°C

#### <u>Characteristics</u>

(Maximum values unless otherwise stated)

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Changes to Rating Report No. 79NR15

pl:  $V_{RWM}$  omitted  $T_{C}$  operating range (min) reduced to -40°C p4:  $V_{RWM}$  omitted

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pp 5-8 : Re-drawn

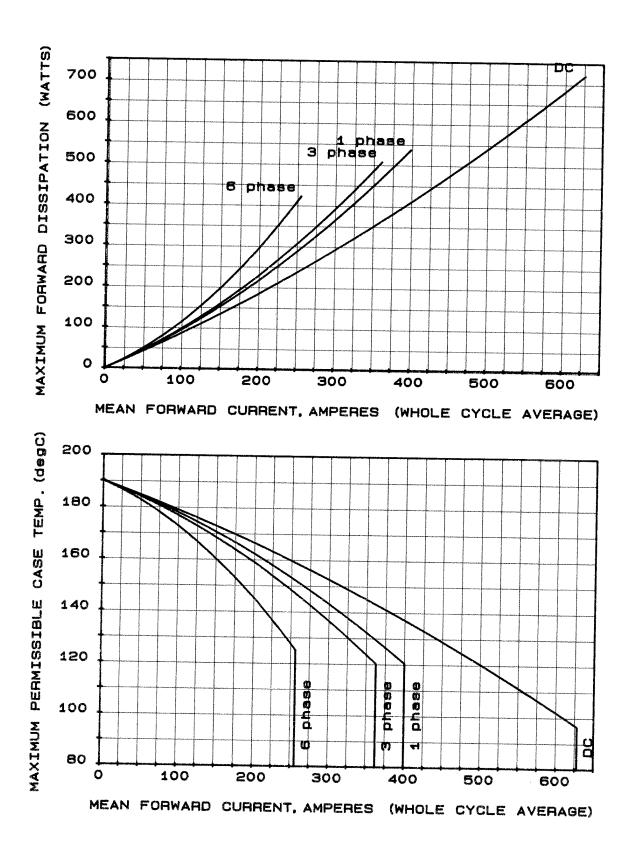
p9: Updated

## <u>Voltage Ratings</u>

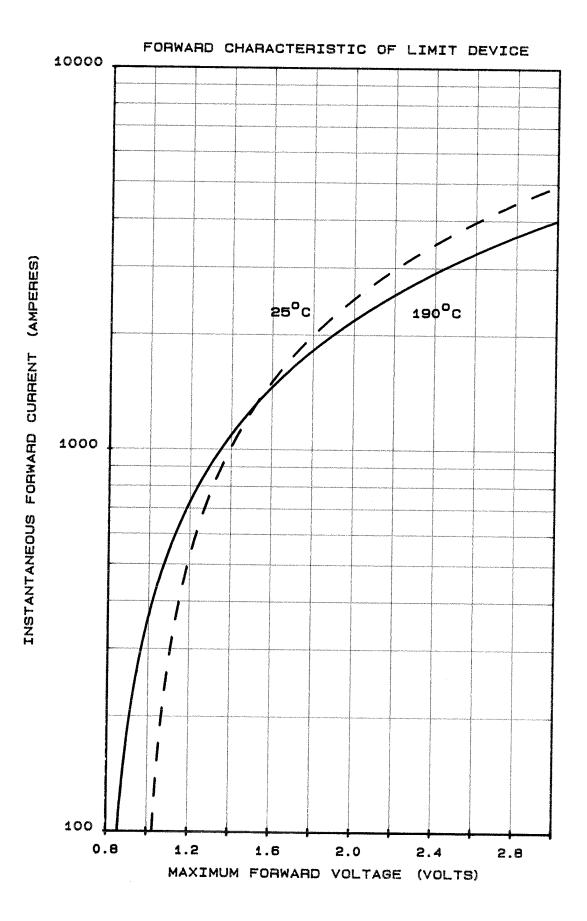
Voltage Class	V <sub>RRM</sub> V	V <sub>RSM</sub> V
02	200	300
04	400	500
06	600	700
08	800	900
10	1000	1100
12	1200	1300
14	1400	1500
15	1500	1600
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This Report is applicable to higher or lower voltage grades when supply has been agreed by Sales/Production.

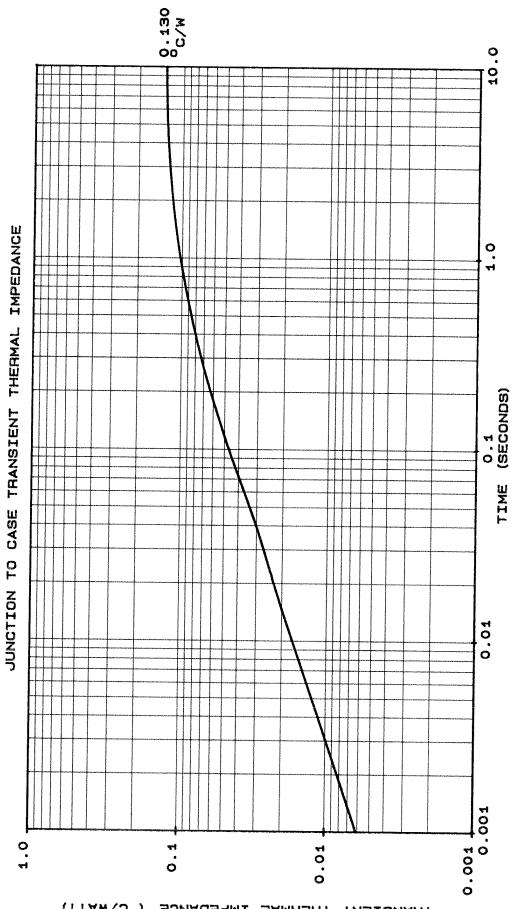
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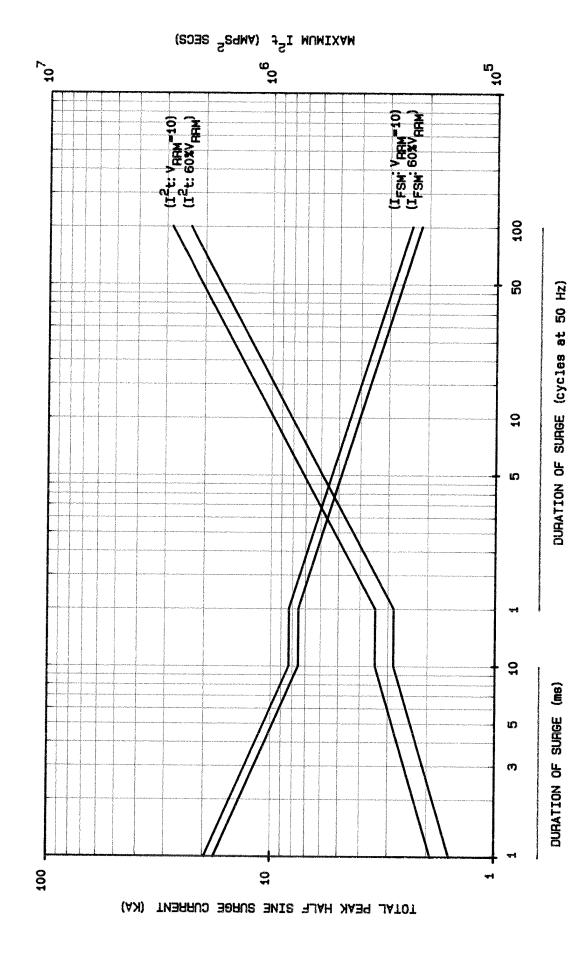
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(TTAW\0°) BONAGB9MI JAMABHT TNBISNAAT

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MAXIMUM NON REPETITIVE SURGE CURRENT AT INITIAL JUNCTION TEMPERATURE 190°C



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