



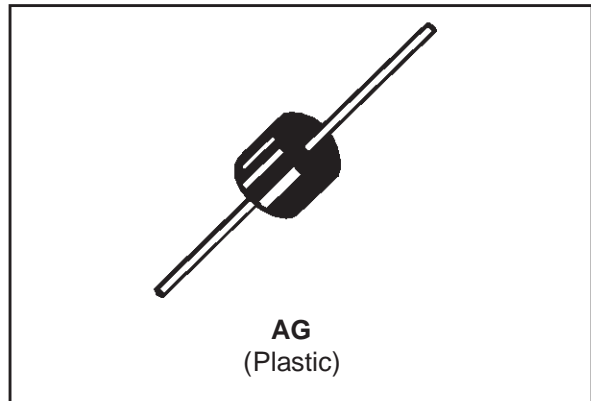
BY214-400 --->1000

RECTIFIER DIODES

MAIN PRODUCTS CHARACTERISTICS

$I_{F(av)}$	6 A
V_{RRM}	1000 V
$V_F(max)$	1.2 V

- STANDARD RECTIFIER
- HIGH SURGE CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP



ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
$I_{F(AV)}$	Average forward current *	$T_a=90^{\circ}C$	6	A
I_{FSM}	Surge non repetitive forward current	$t_p=10ms$ sinusoidal	400	A
P_{tot}	Power dissipation *	$T_a=90^{\circ}C$	6	W
T_{stg} T_j	Storage and junction temperature range		- 65 to + 150	$^{\circ}C$
T_L	Maximum lead temperature for soldering during 10s at 4mm from case		230	$^{\circ}C$

* Single phase, half wave, resistive or inductive load.

Symbol	Parameter	BY214-				Unit
		400	600	800	1000	
V_{RRM}	Repetitive peak reverse voltage	400	600	800	1000	V

THERMAL RESISTANCE

Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	Junction ambient *	10	$^{\circ}C/W$

* On infinite heatsink with 10mm lead length

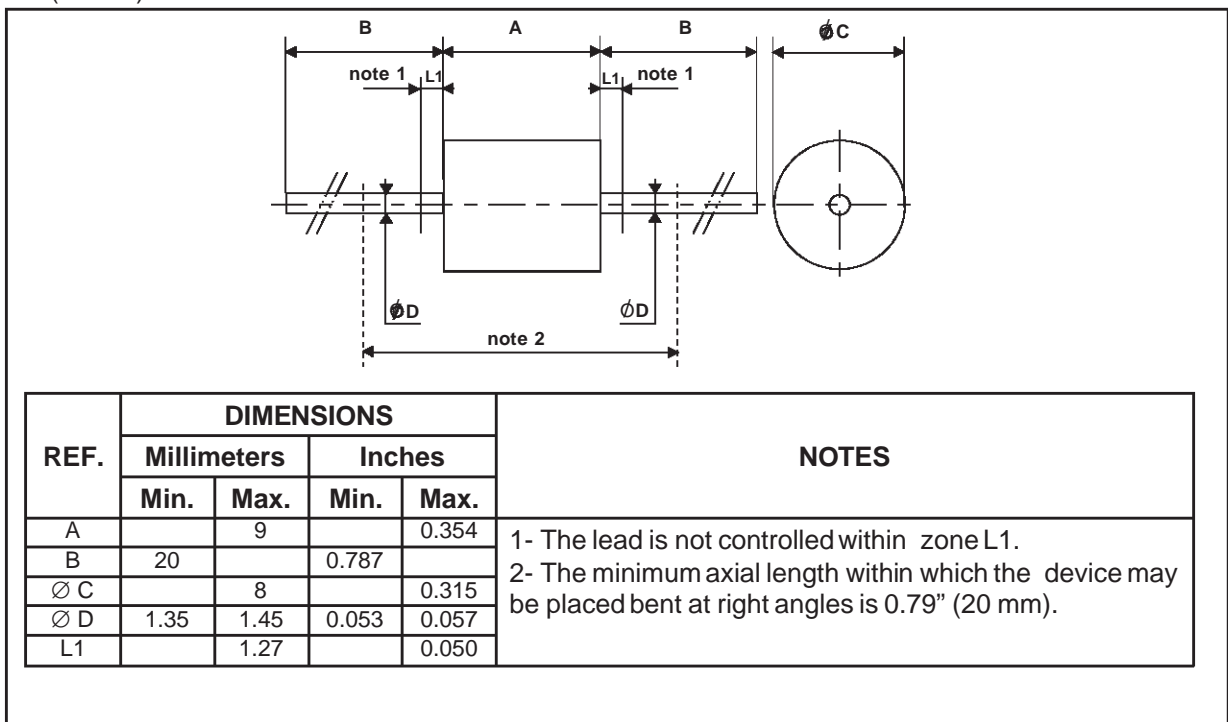
ELECTRICAL CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
V_F *	$T_j = 25^\circ\text{C}$	$I_F = 20\text{ A}$			1.2	V
I_R **	$T_j = 100^\circ\text{C}$	$V_R = V_{RRM}$			250	μA

Pulse test : * $t_p = 380\ \mu\text{s}$, duty cycle < 2 %
 ** $t_p = 5\ \text{ms}$, duty cycle < 2 %

PACKAGE MECHANICAL DATA

AG (Plastic)



Marking : Type number
 Weight : 2.16 g

Information furnished is believed to be accurate and reliable. However, STMicroelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of STMicroelectronics. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. STMicroelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of STMicroelectronics.

The ST logo is a registered trademark of STMicroelectronics

© 1998 STMicroelectronics - Printed in Italy - All rights reserved.

STMicroelectronics GROUP OF COMPANIES

Australia - Brazil - Canada - China - France - Germany - Italy - Japan - Korea - Malaysia - Malta - Mexico - Morocco - The Netherlands - Singapore - Spain - Sweden - Switzerland - Taiwan - Thailand - United Kingdom - U.S.A.