



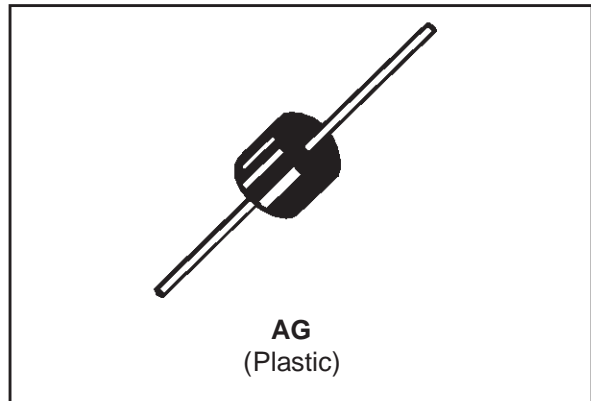
BY214-400 --->1000

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

* 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	$^\circ\text{C/W}$

* 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)

REF.	DIMENSIONS				NOTES
	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
A		9		0.354	1- The lead is not controlled within zone L1. 2- The minimum axial length within which the device may be placed bent at right angles is 0.79" (20 mm).
B	20		0.787		
$\varnothing C$		8		0.315	
$\varnothing D$	1.35	1.45	0.053	0.057	
L1		1.27		0.050	

Marking : Type number
 Weight : 2.16 g

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