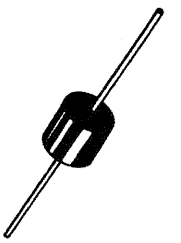
SGS-THOMSON MICROELECTRONICS

BY 214-50 → 1000

RECTIFIER DIODES

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



AG
(Plastic)

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
$I_{F(AV)}$	Average Forward Current*	T_a = 90°C	6	A
I_{FSM}	Surge non Repetitive Forward Current	t_p = 10ms Sinusoidal	400	A
P_{tot}	Power Dissipation*	T_a = 90°C	6	W
T_{stg} T_j	Storage and Junction Temperature Range		– 65 to 150	°C
T_L	Maximun Lead Temperature For Soldering During 10s at 4mm From Case		230	°C

Symbol	Parameter	BY 214-					Unit
		200	400	600	800	1000	
V_{RRM}	Repetitive Peak Reverse Voltage	200	400	600	800	1000	V

THERMAL RESISTANCE

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

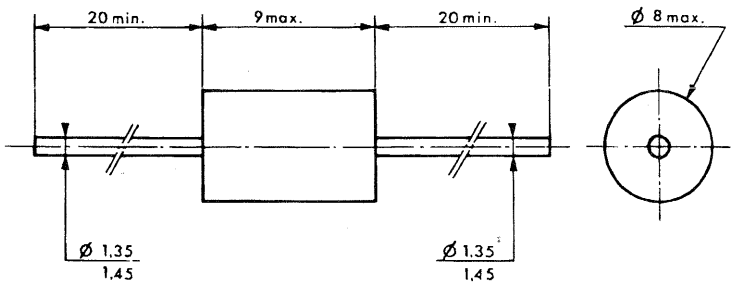
ELECTRICAL CHARACTERISTICS

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

* On infinite heatsink with 10mm lead length
Single phase, half wave, resistive or inductive load

PACKAGE MECHANICAL DATA

AG Plastic



Cooling method : by convection (method A)
Marking : Type number, white band indicates cathode
Weight : 1g