SGS-THOMSON MICROELECTRONICS

BYW 88-50 → 1000

RECTIFIER DIODES

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

DO 4
(Metal)

ABSOLUTE MAXIMUM RATINGS (limiting values)

Symbol	Parameter		Value	Unit
$I_{F(AV)}$	Average Forward Current*	T_C = 125°C	12	A
I_{FSM}	Surge non Repetitive Forward Current	t_p = 10ms Sinusoidal	230	A
P_{tot}	Power Dissipation*	T_C = 125°C	12.5	W
T_{stg} T_j	Storage and Junction Temperature Range		- 40 to + 150 - 40 to + 150	°C

Symbol	Parameter	BYW 88-									Unit
		50	100	200	300	400	500	600	800	1000	
V_{RRM}	Repetitive Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V

THERMAL RESISTANCE

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	Junction-case	2	°C/W

ELECTRICAL CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
I_R	T_j = 125°C	$V_R = V_{RRM}$			3	mA
V_F	T_j = 25°C	I_F = 35A			1.25	V

* Single phase, half wave, resistive or inductive load

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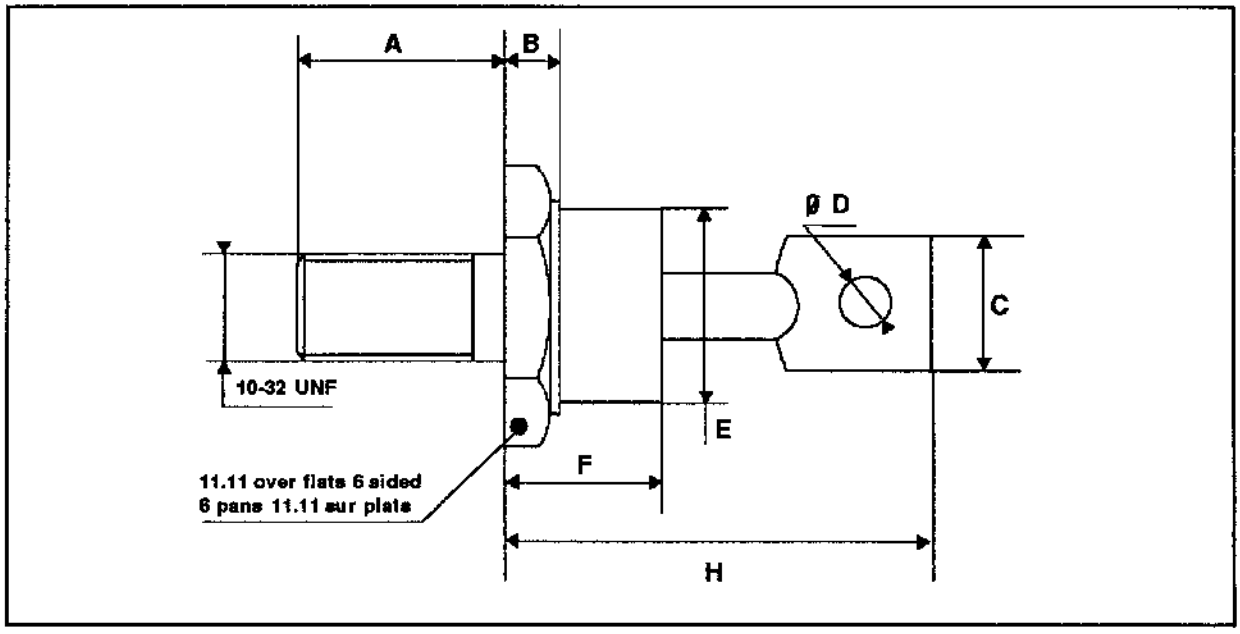
PACKAGE MECHANICAL DATA

DO 4 Metal



REF.	DIMENSIONS					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	10.72		11.50	0.422		0.453
B	2.00		4.40	0.079		0.0173
C			6.35			0.25
D	1.53			0.060		
E			10.76			0.424
F			10.28			0.405
H			20.32			0.800

Cooling method : by conduction (method C)
Marking :Cathode connected to case: type number
Anode connected to case : type number + suffix R (consult us for these reverse version datasheets)
Weight : 5.1g
Recommended torque value : 180cm. N
Maximum torque value :220cm. N

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