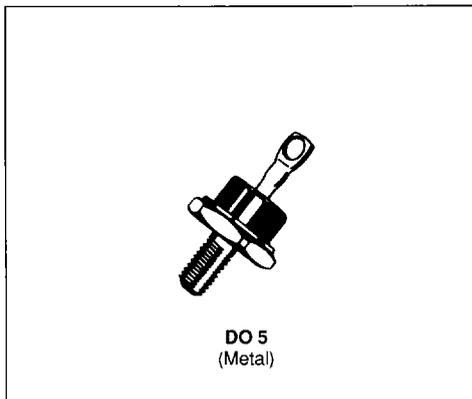


RECTIFIER DIODES

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


ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
$I_{F(AV)}$	Average Forward Current*	$T_c = 140^\circ\text{C}$	40	A
I_{FSM}	Surge non Repetitive Forward Current	$t_p = 10\text{ms}$ Sinusoidal	700	A
P_{tot}	Power Dissipation*	$T_c = 140^\circ\text{C}$	44	W
T_{stg} T_j	Storage and Junction Temperature Range		- 55 to 175	$^\circ\text{C}$

Symbol	Parameter	1N									Unit
		1183	1184	1186	1187	1188	1189	1190	3766	3768	
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	0.8	$^\circ\text{C/W}$

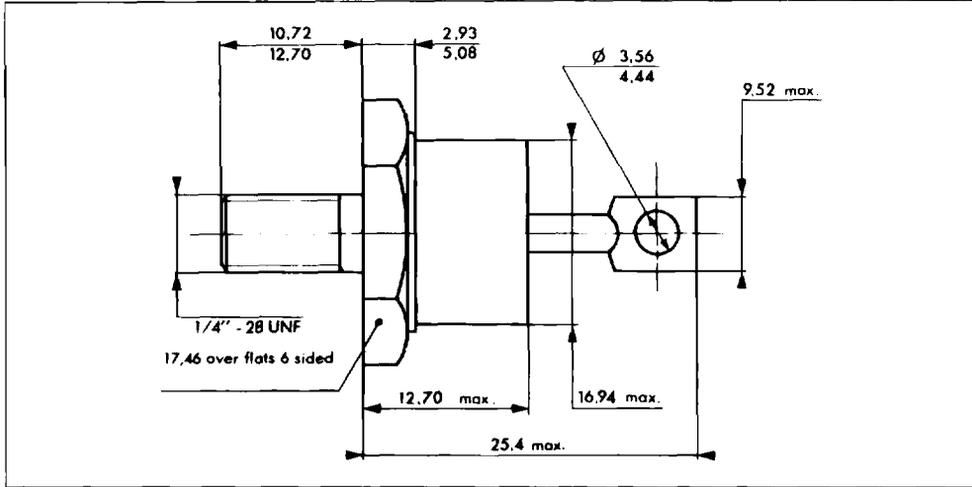
ELECTRICAL CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
I_R	$T_j = 150^\circ\text{C}$	$V_R = V_{RRM}$			500	μA
V_F	$T_j = 25^\circ\text{C}$	$I_F = 110\text{A}$			1.5	V

* Single phase, half wave, resistive or inductive load

PACKAGE MECHANICAL DATA

DO 5 Metal



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 : 18.84g

Recommended torque value : 250cm. N

Maximum torque value : 310cm. N