

DIODE

U_{DRM}, U_{RRM} up to 1600 V
 $I_{F(AV)}$ 300 A
 I_{FSM} 6300 A



Features

- ✚ low thermal impedance
- ✚ tested according to IEC standards
- ✚ compact size and small weight
- ✚ all diffused design
- ✚ high current capabilities
- ✚ high surge current capabilities
- ✚ high rates voltages

APPLICATION

- ✚ High Voltage Power Supplies
- ✚ Motor Control
- ✚ Battery Chargers
- ✚ Free Wheeling Diode
- ✚ Resistance Welding

Type	Code	Voltags	It(avg)
HN300	04	400	300
	06	600	
	08	800	
	10	1000	
	12	1200	
	14	1400	
	16	1600	

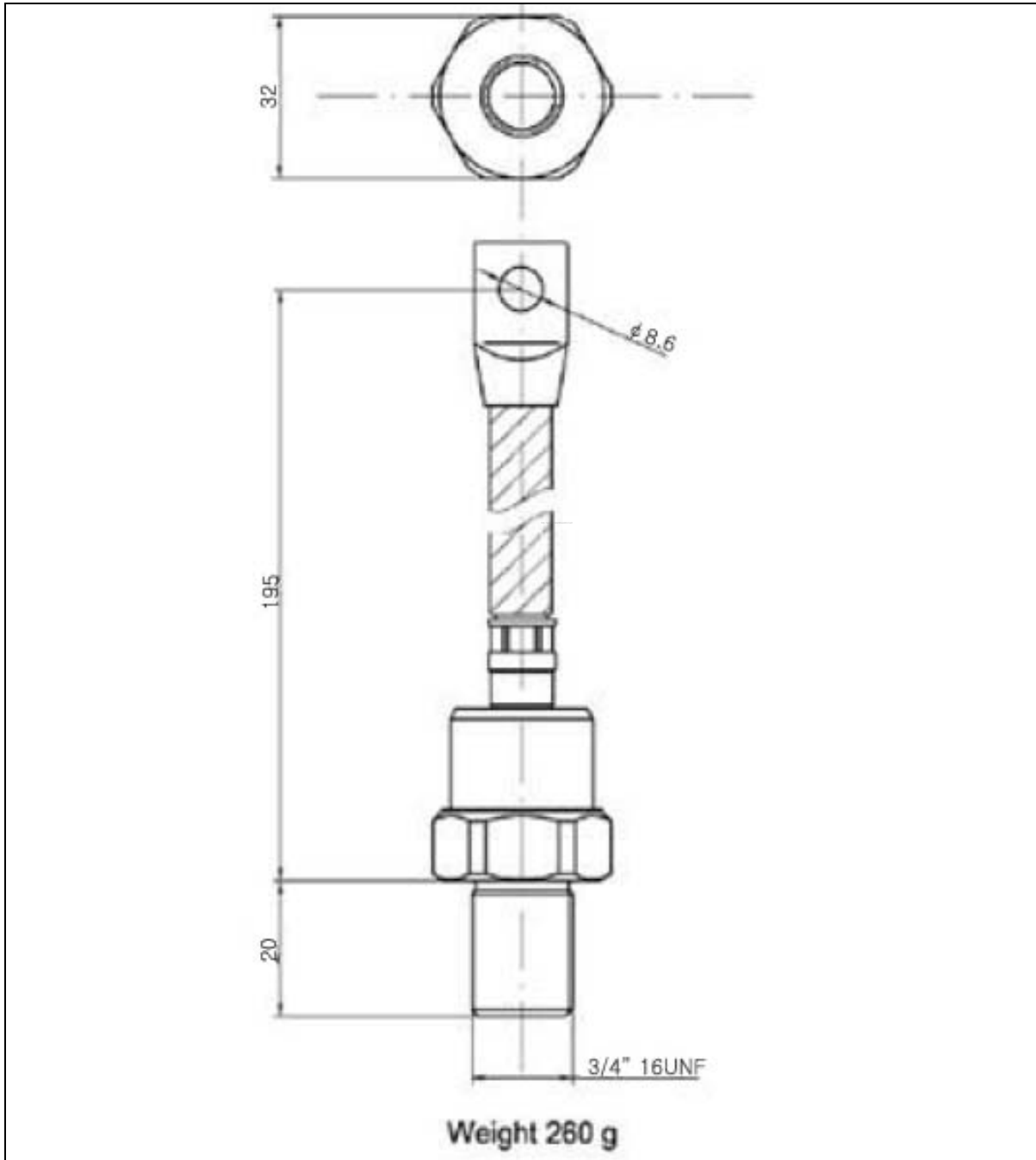
HN300 □ - □ □
 Voltage calss
 Polarity code: R – anode
 on base

DIODE

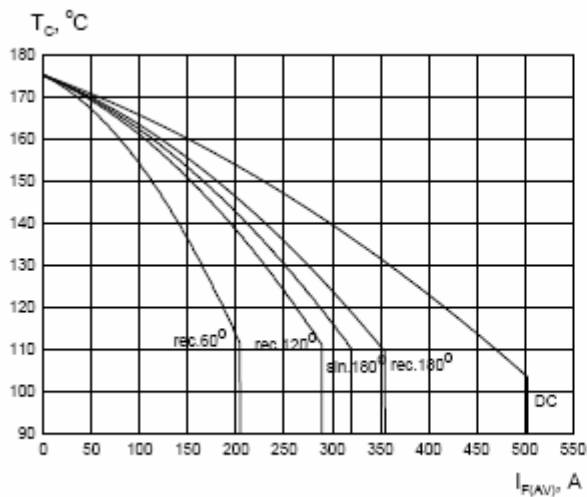
<Electrical properties>

Symbol	Test Conditions	Unit	Value
$I_{F(AV)}$		A	300
T_C		°C	$U_{RRM} \leq 1200V$ 125 $U_{RRM} \leq 1200V$ 125
$I_{F(RMS)}$		A	502
I_{FSM}	$T_j = T_{j \max}$, $U_R = 0.8U_{RRM}$, $t_p = 10ms$	A	6300
I^2T		kA^2s	198
U_{FM}	$T_j = 125^\circ C$, $I_{FM} = 800A$	V	1.40
$U_{F(TO)}$		V	0.69
r_F		$M\Omega$	0.99
R_{thJC}	DC	°C/W	0.12
R_{thCS}		°C/W	0.10
$T_{jmin} \dots T_{jmax}$		°C	$U_{RRM} \leq 1200V$ -40...+190 $U_{RRM} \leq 1200V$ -40...+175
T_{stg}		°C	-40...+190
M_d	Mounting torque	Nm	28..32
Weight		g	260

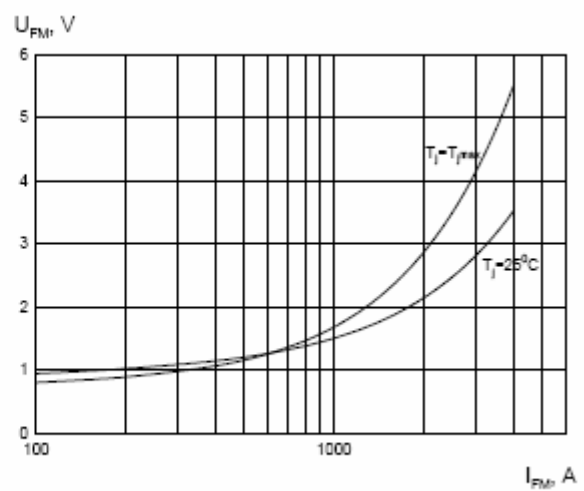
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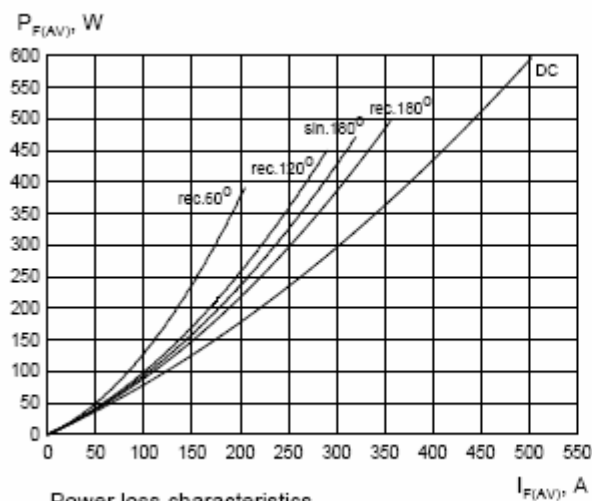
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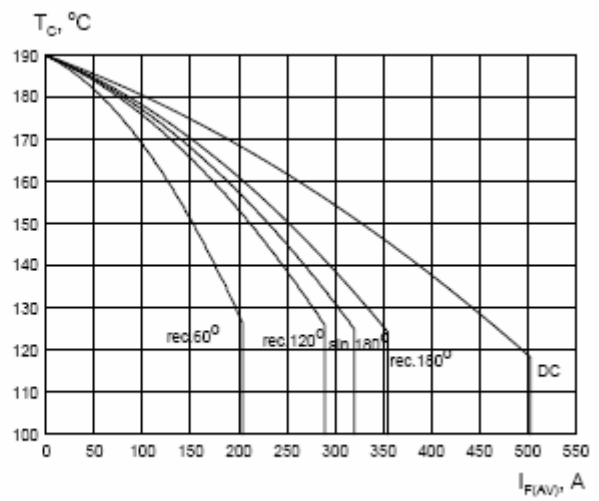
Case temperature ratings. Voltage class > 12



Forward characteristic

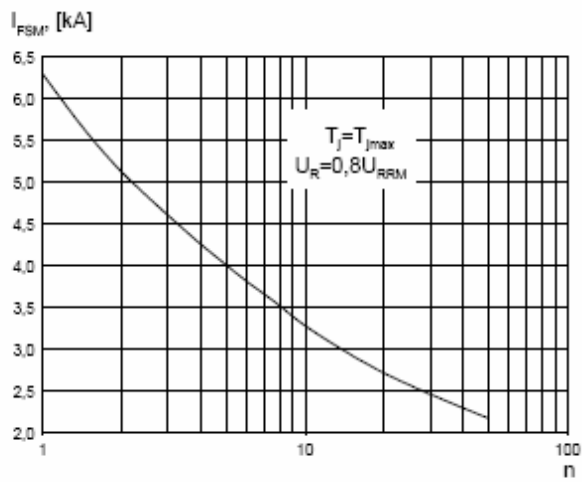


Power loss characteristics

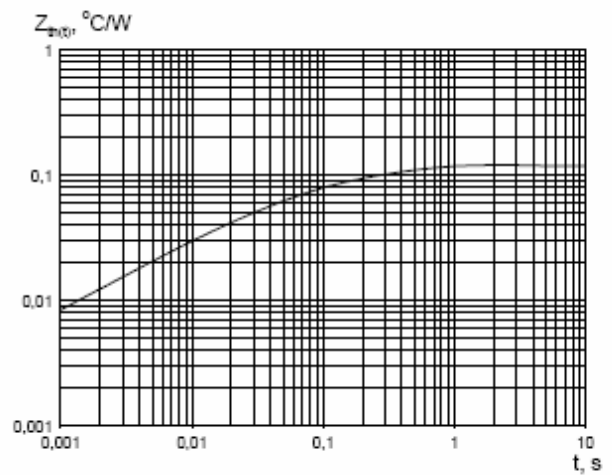


Case temperature ratings. Voltage class up to 12 (incl.)

<CHARACTERISTICS>



Non-repetitive surge current rating



Transient thermal impedance