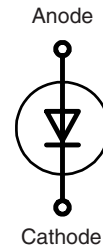


High Voltage Rectifiers

$$V_{RRM} = 24000 \text{ V}$$

$$I_{F(AV)M} = 2.0 \text{ A}$$

V_{RRM} V	Standard Types	Power Designation
24000	UGE 3126 AY4	Si-E 9000 / 4000-0.7



Symbol	Conditions	Ratings	
$I_{F(RMS)}$ $I_{F(AV)M}$	air self cooling, $T_{amb} = 45^\circ\text{C}$ - without cooling plate - with colling plate	5 0.8 1.0	A A A
	forced air cooling: $v = 3 \text{ m/s}$, $T_{amb} = 35^\circ\text{C}$ - without cooling plate - with cooling plate	1.4 1.7	A A
	oil cooling, $T_{amb} = 35^\circ\text{C}$ - without cooling plate - with cooling plate	2.0 2.0	A A
P_{RSM}	$T_{(vj)} = 150^\circ\text{C}$; $t_p = 10 \mu\text{s}$	1.6	kW
I_{FSM}	non repetitive, 50 c/s (for 60 c/s add 10%) $T_{(vj)} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$	70	A
	$T_{(vj)} = 150^\circ\text{C}$; $t_p = 10 \text{ ms}$	60	A
T_{amb}		-40...+150	$^\circ\text{C}$
T_{stg}		-40...+150	$^\circ\text{C}$
$T_{(vj)}$		150	$^\circ\text{C}$
Weight		127	g

Features

- Hermetically sealed Epoxy
- Use in oil
- Avalanche characteristics

Applications

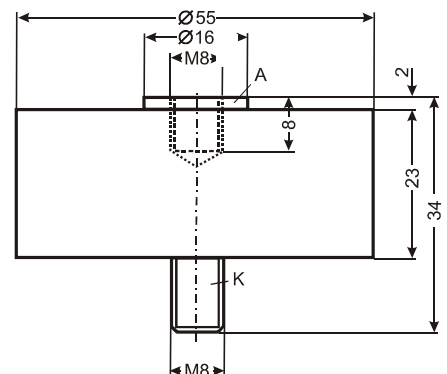
- X-Ray equipment
- Electrostatic dust precipitators
- Electronic beam welding
- Lasers
- Cable test equipment

Advantages

- Simple mounting
- Improved temperature and power cycling
- Reduced protection circuits
- Series and parallel operation

Symbol	Conditions	Characteristic Values	
I_R	$T_{(vj)} = 150^\circ\text{C}$; $V_R = V_{RRM}$	≤ 1	mA
V_F	$I_F = 3 \text{ A}$ $T_{(vj)} = 25^\circ\text{C}$	18	V
V_{TO}	$T_{(vj)} = 150^\circ\text{C}$	12	V
r_T	$T_{(vj)} = 150^\circ\text{C}$	1.8	Ω
a	$f = 50\text{Hz}$	5 x 9,81	m/s^2
M_d		8	Nm

Dimensions in mm (1 mm = 0.0394")



Data according to IEC 60747-2
IXYS reserve the right to change limits, test conditions and dimensions.

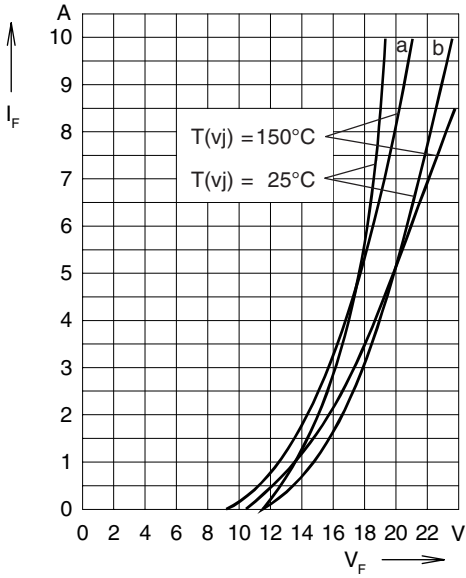


Fig. 1: Forward characteristics
 Instantaneous forward current I_F as a function of instantaneous forward voltage drop V_F for junction temperature $T_{(vj)} = 25^\circ\text{C}$ and $T_{(vj)} = 150^\circ\text{C}$
 a = Mean value characteristic
 b = Limit value characteristic

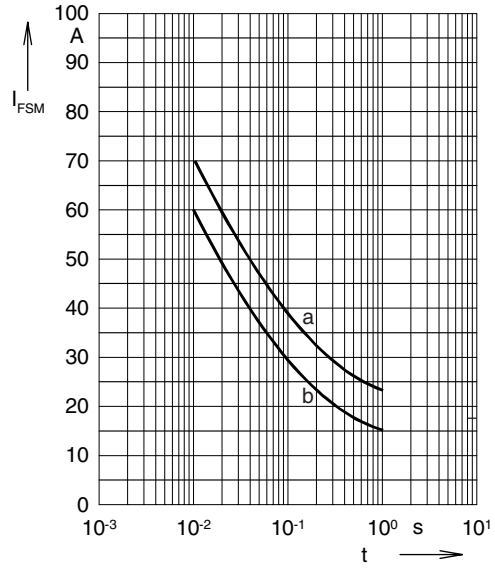


Fig. 2: Characteristics of maximum permissible current
 The curves show the non repetitive peak one cycle surge forward current I_{FSM} as a function of time t and serve for rating protective devices.
 a = Initial state $T_{(vj)} = 45^\circ\text{C}$
 b = Initial state $T_{(vj)} = 150^\circ\text{C}$

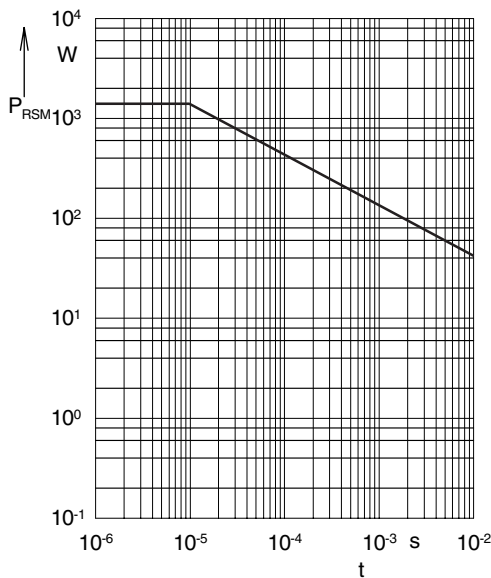


Fig. 3: Power loss
 Non repetitive peak reverse power loss P_{RSM} as a function of time t , $T_{(vj)} = 150^\circ\text{C}$

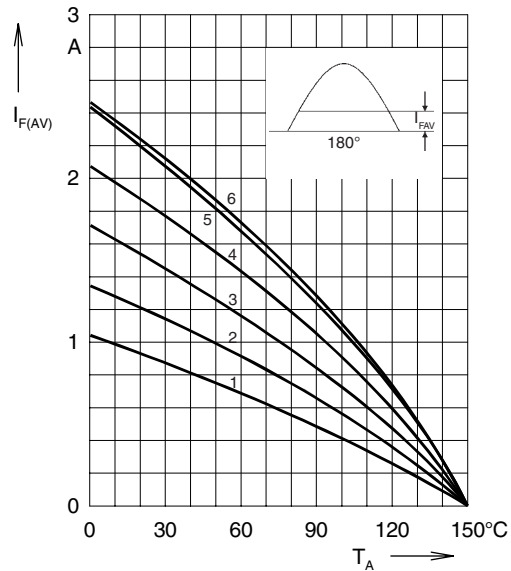


Fig. 4: Load diagramm
 Mean forward current $I_{F(AV)}$ of one module for a sine half wave for various cooling modes as a function of the cooling medium temperature T_{amb} for a resistive load (horizontal mounting).

Cooling modes

- 1 = air self cooling without cooling plate
- 2 = air self cooling with cooling plate
- 3 = forced air cooling without cooling plate
- 4 = forced air cooling with cooling plate
- 5 = oil cooling without cooling plate
- 6 = oil cooling with cooling plate

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Discrete Semiconductor Modules](#) category:

Click to view products by [IXYS](#) manufacturer:

Other Similar products are found below :

[M252511FV](#) [DD260N12K-A](#) [DD380N16A](#) [DD89N1600K-A](#) [APT2X21DC60J](#) [APT58M80J](#) [B522F-2-YEC](#) [MSTC90-16](#) [25.163.0653.1](#)
[25.163.2453.0](#) [25.163.4253.0](#) [25.190.2053.0](#) [25.194.3453.0](#) [25.320.4853.1](#) [25.320.5253.1](#) [25.326.3253.1](#) [25.326.3553.1](#) [25.330.1653.1](#)
[25.330.4753.1](#) [25.330.5253.1](#) [25.334.3253.1](#) [25.334.3353.1](#) [25.350.2053.0](#) [25.352.4753.1](#) [25.522.3253.0](#) [T483C](#) [T484C](#) [T485F](#) [T485H](#)
[T512F-YEB](#) [T513F](#) [T514F](#) [T554](#) [T612FSE](#) [25.161.3453.0](#) [25.179.2253.0](#) [25.194.3253.0](#) [25.325.1253.1](#) [25.326.4253.1](#) [25.330.0953.1](#)
[25.332.4353.1](#) [25.350.1653.0](#) [25.350.2453.0](#) [25.352.1453.0](#) [25.352.1653.0](#) [25.352.2453.0](#) [25.352.5453.1](#) [25.522.3353.0](#) [25.602.4053.0](#)
[25.640.5053.0](#)