

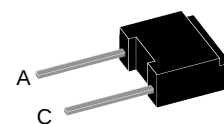
Rectifier Diode

Avalanche Diode

$$V_{\text{BRM}} = 1200\text{-}1800 \text{ V}$$
$$I_{F(RMS)} = 7 \text{ A}$$
$$I_{F(AV)M} = 2.3 \text{ A}$$

V_{RSM} V	$V_{(BR)min}^{①}$ V	V_{RRM} V	Standard Type	Avalanche Types
1300	1300	1200	DS1-12D	DSA 1-12D
1700	1750	1600		DSA 1-16D
1900	1950	1800		DSA 1-18D

① Only for Avalanche Diodes



A = Anode C = Cathode

Symbol	Test Conditions	Maximum Ratings	
I_{FRMS}	$T_{VJ} = T_{VJM}$	7	A
I_{F(AV)M}	$T_{amb} = 45^{\circ}\text{C}; R_{thJA} = 38 \text{ K/W}; 180^{\circ} \text{ sine}$	2.3	A
	$T_{amb} = 45^{\circ}\text{C}; R_{thJA} = 80 \text{ K/W}; 180^{\circ} \text{ sine}$	1.3	A
P_{RSM}	DSA types, $T_{VJ} = T_{VJM}, t_p = 10 \mu\text{s}$	1.6	kW
I_{FSM}	$T_{VJ} = 45^{\circ}\text{C};$ $V_R = 0$ $t = 10 \text{ ms (50 Hz), sine}$	110	A
	$t = 8.3 \text{ ms (60 Hz), sine}$	118	A
	$T_{VJ} = T_{VJM}$ $V_R = 0$ $t = 10 \text{ ms (50 Hz), sine}$	100	A
	$t = 8.3 \text{ ms (60 Hz), sine}$	104	A
I²t	$T_{VJ} = 45^{\circ}\text{C}$ $V_R = 0$ $t = 10 \text{ ms (50 Hz), sine}$	60	A ² s
	$t = 8.3 \text{ ms (60 Hz), sine}$	58	A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$ $t = 10 \text{ ms (50 Hz), sine}$	50	A ² s
	$t = 8.3 \text{ ms (60 Hz), sine}$	45	A ² s
T_{VJ}		-40...+150	°C
T_{VJM}		150	°C
T_{stg}		-40...+150	°C
Weight		0.8	g

Features

- Plastic standard package
- Planar glassivated chips

Applications

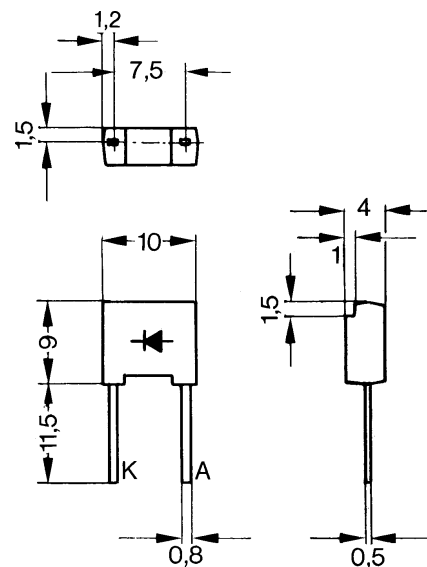
- Low power rectifiers
- Field supply for DC motors
- Power supplies
- High voltage rectifiers

Advantages

- Space and weight savings
- Simple PCB mounting
- Improved temperature and power cycling
- Reduced protection circuits

Dimensions in mm (1 mm = 0.0394")

Symbol	Test Conditions	Characteristic Values		
I_R	$T_{VJ} = T_{VJM}; V_R = V_{RRM}$	$\leq$	0.7	mA
V_F	$I_F = 7 \text{ A}; T_{VJ} = 25^\circ\text{C}$	$\leq$	1.3	V
V_{T0}	For power-loss calculations only		0.8	V
r_T	$T_{VJ} = T_{VJM}$		67	m Ω
R_{thJA}	Forced air cooling with 1.5 m/s, $T_{amb} = 45^\circ\text{C}$		38	K/W
	Soldered on to PC board, $T_{amb} = 45^\circ\text{C}$		80	K/W
d_S	Creepage distance on surface		8.5	mm
d_A	Strike distance through air		6.7	mm
a	Max. allowable acceleration		100	m/s ²



Data according to IEC 60747

IXYS reserves the right to change limits, test conditions and dimensions

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