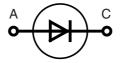


Avalanche Diode

$V_{RRM} = 1200-1800 V$ $I_{F(RMS)} = 7 A$ $I_{FAVM} = 2.3 A$

Preliminary data

V _{RSM}	V _{(BR)min}	V _{RRM}	Туре
1300	1300	1200	DSA 1-12D
1700	1750	1600	DSA 1-16D
1900	1950	1800	DSA 1-18D





A = Anode, C = Cathode

Features

- Plastic standard package
- Planar passivated 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 & power cycling
- Reduced protection circuits

Symbol	Conditions $T_{V,I} = T_{V,IM}$			Maximum Ratings		
I _{FRMS}				7	Α	
I _{FAVM}	$T_{amb} = 45^{\circ}\text{C}$; $R_{thJA} = 38 \text{ K/W}$; 180° sine			2.3	Α	
	$T_{amb} = 45^{\circ}C; F$	$R_{thJA} = 80 \text{ K/s}$	W; 180° sine	1.3	Α	
P _{RSM}	T_{VJM} , $t_p = 10 \mu s$			1.6	kW	
I _{FSM}	$T_{V,I} = 45^{\circ}C;$	t = 10 ms	(50 Hz), sine	110	A	
1 SW		t = 8.3 ms	(60 Hz), sine	118		
	$T_{VI} = 150^{\circ}C;$	t = 10 ms	(50 Hz), sine	100	A	
	,	t = 8.3 ms	(60 Hz), sine	104		
l²t	$T_{VI} = 45^{\circ}C;$	t = 10 ms	(50 Hz), sine	60	A ² s	
	V 0	t = 8.3 ms	(60 Hz), sine	58		
	T _{v1} = 150°C;	t = 10 ms	(50 Hz), sine	50	A ² s	
	V3 ,		(60 Hz), sine	45		
T _{VJ}				-40+150	°C	
T _{VJM}				150	°C	
T _{stg}				-40+150	°C	
Weight	typical			0.8	g	

Symbol Conditions

Characteristic Values

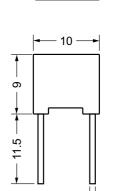
		typ.	max.	
I _R	$V_R = V_{RRM}$ $T_{VJ} = T_{VJM}$		0.7	mA
V_{F}	$I_F = 7 \text{ A}$ $T_{VJ} = 25^{\circ}\text{C}$		1.34	V
V_{T0}	For power-loss calculations only		0.8	V
r _T	$T_{VJ} = T_{VJM}$		67	mΩ
R_{thJA}	Forced air cooling with 1.5 m/s, T _{amb} = 45°C		38	K/W
	Soldered on to PC board, $T_{amb} = 45^{\circ}C$		80	K/W
d_s	Creepage distance on surface		8.5	mm
d _s d _A	Strike distance through air		6.7	mm
а	Max. allowable acceleration		100	m/s ²

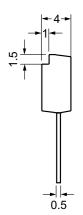
Data according to IEC 60747

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Dimensions in mm (1 mm = 0.0394")





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