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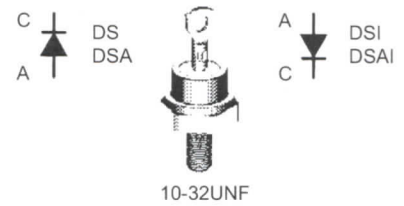
Rectifier Diode
Avalanche Diode

V_{RRM} = 800-1800 V
I_{F(RMS)} = 40 A
I_{F(AV)M} = 25 A

V _{RSM} V	V _{(BR)min} ① V	V _{RRM} V	Anode on stud	Cathode on stud
900	-	800	DS 17-08A	DSI 17-08A
1300	-	1200	DS 17-12A	DSI 17-12A
1300	1300	1200	DSA 17-12A	DSAI 17-12A
1700	1750	1600	DSA 17-16A	DSAI 17-16A
1900	1950	1800	DSA 17-18A	DSAI 17-18A

① Only for Avalanche Diodes

DO-203 AA



A = Anode C = Cathode

Symbol	Test Conditions	Maximum Ratings
I _{F(RMS)}	T _{VJ} = T _{VJM}	40 A
I _{F(AV)M}	T _{case} = 125°C; 180° sine	25 A
P _{RSM}	DSA(I) types, T _{VJ} = T _{VJM} , t _p = 10 μs	7 kW
I _{FSM}	T _{VJ} = 45°C; t = 10 ms (50 Hz), sine	370 A
	V _R = 0; t = 8.3 ms (60 Hz), sine	400 A
I ² t	T _{VJ} = 45°C; t = 10 ms (50 Hz), sine	680 A ² s
	V _R = 0; t = 8.3 ms (60 Hz), sine	660 A ² s
T _{VJ}	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz), sine	450 A ² s
	V _R = 0; t = 8.3 ms (60 Hz), sine	430 A ² s
T _{VJM}		-40...+180 °C
T _{stg}		180 °C
M _d	Mounting torque	-40...+180 °C
Weight		2.2-2.8 Nm
		19-25 lb.in.
		6 g

Features

- International standard package, JEDEC DO-203 AA (DO-4)
- Planar glassivated chips

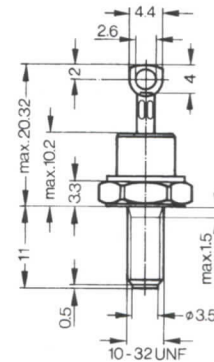
Applications

- Supplies for DC power equipment
- DC supply for PWM inverter
- Field supply for DC motors
- Battery DC power supplies

Advantages

- Space and weight savings
- Simple 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}	≤ 4 mA
V _F	I _F = 55 A; T _{VJ} = 25°C	≤ 1.36 V
V _{T0}	For power-loss calculations only	0.85 V
r _T	T _{VJ} = T _{VJM}	8 mΩ
R _{thJC}	DC current	1.5 K/W
R _{thJH}	DC current	2.1 K/W
d _S	Creepage distance on surface	2.05 mm
d _A	Strike distance through air	2.05 mm
a	Max. allowable acceleration	100 m/s ²

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