DSA17-18A



FEATURES

isc

- International standard package, JEDEC DO-203 AA (DO-4)
- Anode on stud version
- Designed and qualified for industrial and consumer level
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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



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PARAMETER	CONDITIONS	VALUE	UNIT
Repetitive Peak Reverse Voltage		1800	V
Average Forward Current	Tc=125℃, 180° conduction, sine wave	25	А
RMS Forward Current	T _{VJ} =T _{VJM}	40	A
I _{FSM} Surge Forward Current	T _{VJ} =45℃;t=10ms(50Hz),sine	370	
	V _R =0; t=8.3ms(60Hz), sine	400	
	T _{VJ} =T _{VJM} ;t=10ms(50Hz),sine	300	A
	V _R =0; t=8.3ms(60Hz), sine	320	
Junction Temperature		-40~150	°C
Storage Temperature Range		-40~150	°C
	Repetitive Peak Reverse Voltage Average Forward Current RMS Forward Current Surge Forward Current Junction Temperature	Repetitive Peak Reverse Voltage Average Forward Current $T_{C}=125^{\circ}C$, 180° conduction, sine wave RMS Forward Current $T_{VJ}=T_{VJM}$ Surge Forward Current $T_{VJ}=45^{\circ}C$; t=10ms(50Hz),sine $V_R=0$; t=8.3ms(60Hz), sine $T_{VJ}=T_{VJM}$; t=10ms(50Hz),sine Junction Temperature	Repetitive Peak Reverse Voltage1800Average Forward Current $T_{C}=125^{\circ}C, \\ 180^{\circ} \text{ conduction, sine wave}$ 25RMS Forward Current $T_{VJ}=T_{VJM}$ 40 $I_{VJ}=T_{VJM}$ $V_R=0; t=10ms(50Hz), sine$ 370 $V_R=0; t=8.3ms(60Hz), sine$ 400 $T_{VJ}=T_{VJM}; t=10ms(50Hz), sine$ 300 $V_R=0; t=8.3ms(60Hz), sine$ 320Junction Temperature-40~150

ABSOLUTE MAXIMUM RATINGS

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.2	°C/W



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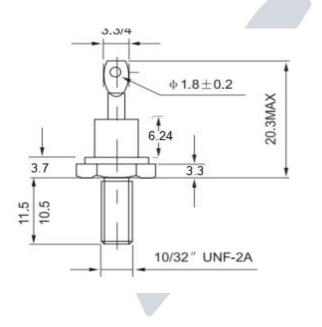
Rectifier Diode

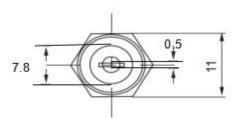
ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Forward Voltage drop	I _F = 55A, T _J = 25℃	1.1	V
I _R	Reverse Current	T _{VJ} =T _{VJM} ,V _R =V _{RRM}	4	mA

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")





For metric devices:M5×0.8

Case Style DO-4

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