XI'AN IR-PERI Company

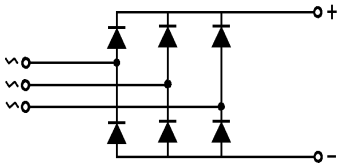
PRELIMINARY

MDS30DF080/160

Three Phase Rectifier Bridge

Features

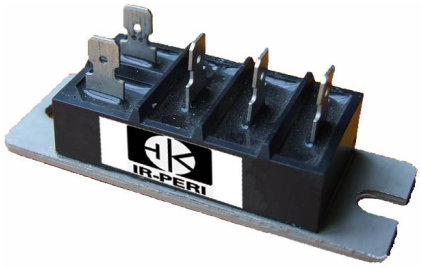
- International standard package With DBC
- Isolation voltage 3000 V~
- High surge capability
- Complies With RoHS Directive;
- Lead Free;



I_{DAV} = 30 **A**
V_{RRM}=800V-1600V

Benefits

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



Absolute Maximum Ratings

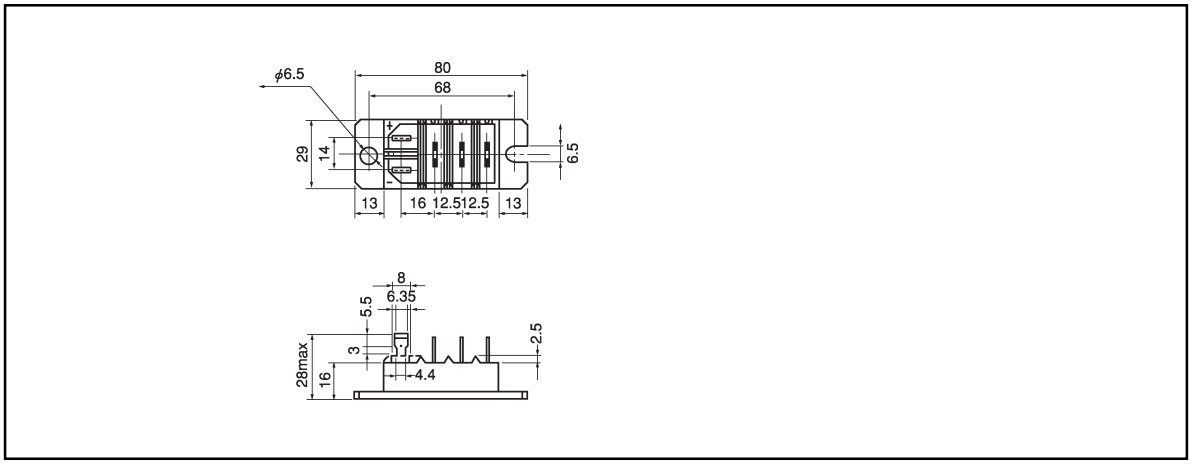
I_{dAV} ①	T_C = 85°C, module		30	A
I_{dAVM} ①	module		90	A
I_{FSM}	T_{VJ} = 45°C;	t = 10 ms(50 Hz), sine	300	A
	V_R = 0	t = 8.3 ms(60 Hz), sine	320	A
	T_{VJ} = T_{VJM}	t = 10 ms(50 Hz), sine	249	A
	V_R = 0	t = 8.3 ms(60 Hz), sine	264	A
I^2t	T_{VJ} = 45°C	t = 10 ms(50 Hz), sine	750	A^2s
	V_R = 0	t = 8.3 ms(60 Hz), sine	690	A^2s
	T_{VJ} = T_{VJM}	t = 10 ms(50 Hz), sine	516	A^2s
	V_R = 0	t = 8.3 ms(60 Hz), sine	486	A^2s
T_{VJ}			-40...+125	°C
T_{VJM}			125	°C
T_{stg}			-40...+125	°C
V_{ISOL}	50/60 Hz, RMS	t = 1 min	AC 2500V	
	I_{ISOL} ≤ 1 mA	t = 1 s	AC 3000V	
M_d	Mounting torque(M6)		2.5-3.9	Nm
Weight	typ.		78	g

① for resistive load at bridge output.

XI'AN IR-PERI CO., Ltd. reserves the right to change specifications without notice.

Symbol	Test Conditions		Characteristic Values	
I_R	$V_R = V_{RRM}$;	T_{VJ} = 25°C	0.3	mA
	$V_R = V_{RRM}$;	$T_{VJ} = T_{VJM}$	5	mA
V_F	I_F = 90 A;	T_{VJ} = 25°C	1.5	V
V_{T0}	For power-loss calculations only		0.8	V
r_T			6.0	mΩ
R_{thJC}	per diode, DC current		1.60	K/W
	per module		0.267	K/W
R_{thJH}	per diode, DC current		2.21	K/W
	per module		0.367	K/W
d_S	Creep distance on surface		10	mm
d_A	Strike distance in air		9.4	mm
a	Max. allowable acceleration		50	m/s^2

Case Outline-DF-Pak



Dimensions are shown in millimeters

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