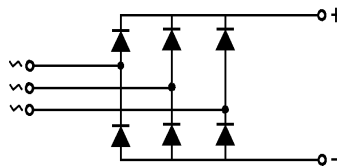


Three Phase Rectifier Bridge

Features

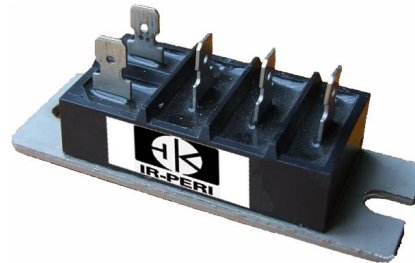
- International standard package
With DBC
- Isolation voltage 3000 V~
- High surge capability
- Complies With RoHS Directive;
- Lead Free;



$I_{DAV} = 30\text{ A}$
 $V_{RRM} = 800\text{V}-1600\text{V}$

Benefits

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



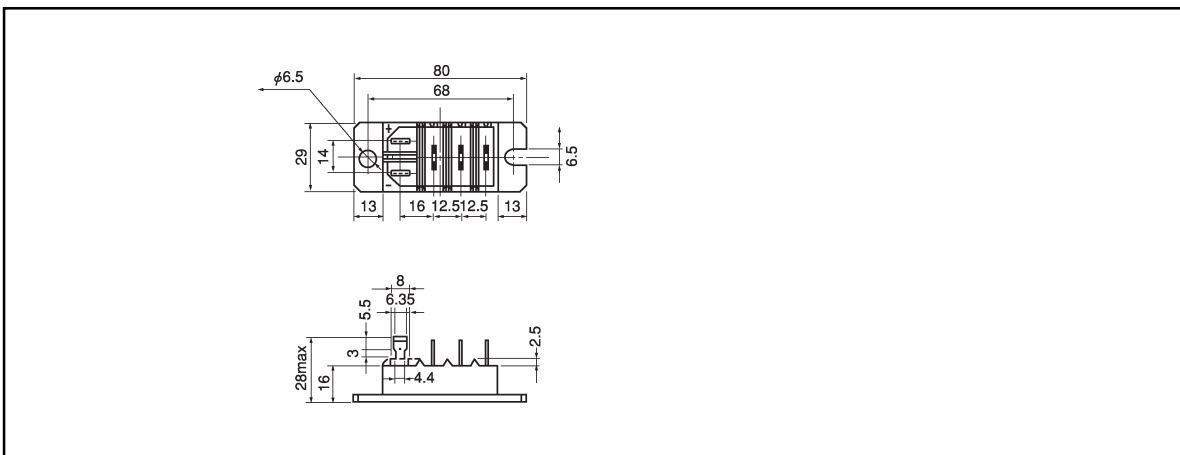
Absolute Maximum Ratings

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

① for resistive load at bridge output.

Symbol	Test Conditions	Characteristic Values
I_R	$V_R = V_{RRM}; T_{VJ} = 25^\circ\text{C}$	0.3 mA
	$V_R = V_{RRM}; T_{VJ} = T_{VJM}$	5 mA
V_F	$I_F = 90 \text{ A}; T_{VJ} = 25^\circ\text{C}$	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