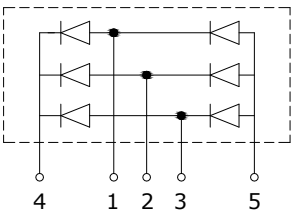
PRELIMINARY DATASHEET

1600V Rectifier Diodes in 3-Phase Bridge Configuration In iQPak™1 Power Module Package

- General purpose rectifiers
- Low forward voltage
- Pb-free lead finish; RoHS compliant



MAXIMUM RATINGS (per Diode) , at T_c= 25°C, unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V_{RRM}	1600	V
Continuous forward current T_C= 100°C	I_F	100	A
Surge non-repetitive forward current t_p = 10 ms, no voltage reapplied, sine wave, T_j=45°C	I_{FSM}	1000	
Soldering temperature Wave soldering, 1.6 mm (0.063 in.) from case for 10s	T_S	260	°C
Operating junction and storage temperature	T_j, T_{stg}	-40… +150	

Thermal and Isolation Characteristics

Parameter	Symbol	Max. Value	Units
Characteristics			
Diode thermal resistance, junction to case	R_{thJCD}	0.9	K/W
Module thermal resistance, junction to case	R_{thJCM}	0.15	K/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V_{iso}	3000	V

Electrical Characteristics (per Diode), at T_c = 25°C, unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Static Characteristics					
Reverse leakage current At 100% Vrrm	I_R	-	-	500	µA
Forward voltage drop I_F=200A, T_j=125°C	V_F	-	1.4	-	V

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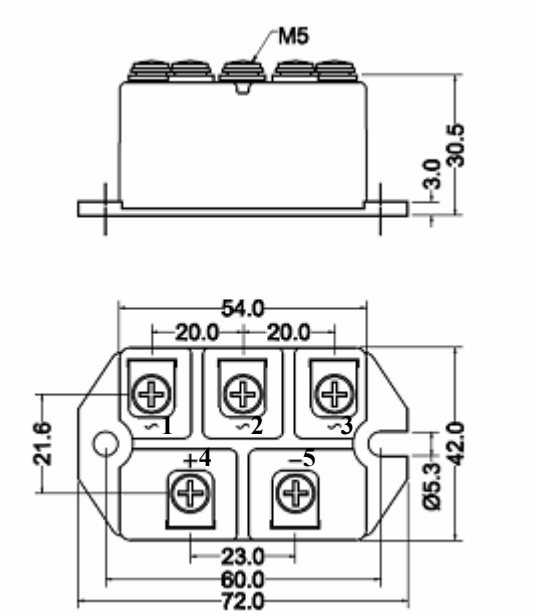
Package Outline Drawing



Disclaimer

These specifications may not be considered as a guarantee of components characteristics. Components have to be tested depending on intended application as adjustments may be necessary. The use of **iQXPRZ Power Inc.** components in life support appliances and systems are subject to written approval of **iQXPRZ Power Inc.**

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