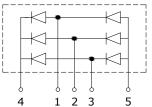


PRELIMINARY DATASHEET

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, at T_i = 25°C, unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V _{RRM}	1600	V
Continuous forward current T _C = 100°C	l _F	80	
Maximum RMS forward current	I _{F(RMS)}	126	Α
Surge non-repetitive forward current $T_C=25^{\circ}C$, $t_p=10$ ms, sine halfwave	I _{FSM}	1500	
Soldering temperature Wave soldering, 1.6 mm (0.063 in.) from case for 10s	Ts	260	°C
Operating junction and storage temperature	T _j , T _{stg}	-40 +150	

Thermal and Isolation Characteristics

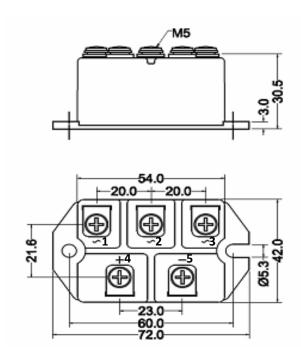
Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	R_{thJC}	0.28	°C/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V _{iso}	3000	٧

Electrical Characteristics, at T_j = 25°C, unless otherwise specified

Parameter	Symbol	Value			11!
		Min.	Тур.	Max.	Unit
Static Characteristics					
Reverse leakage current $V_R = 1600V$	I _R	-	-	10	mA
Forward voltage drop I _{FM} = 250A	V _{FM}	-	1.6	-	٧



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.**