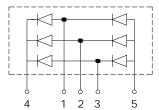


PRELIMINARY DATASHEET

1600V Rectifier Diodes in 3-Phase Bridge Configuration In iQPakTM1 Power Module Package

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





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

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V_{RRM}	1600	٧
Continuous forward current T _C = 100°C	I _F	100	
Surge non-repetitive forward current $T_j=45^{\circ}C$; $t_p=10$ ms, (50Hz), sine $T_j=T_{jmox}$; $t_p=10$ ms, (50Hz), sine	I _{FSM}	1000 800	А
Operating junction and storage temperature	Tj, Tstg	-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	٧

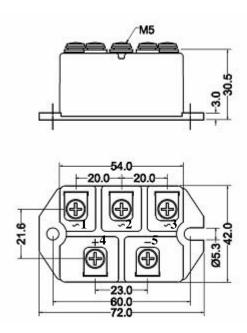
Electrical Characteristics (per Diode), at T_c = 25°C, unless otherwise specified

2.0 cm							
Parameter	Symbol	Value			11:4		
		Min.	Typ.	Max.	Unit		
Static Characteristics							
Reverse leakage current $V_R = 1600V$	I _R	-	-	500	μΑ		
Forward voltage drop I _F =200A, T _i =125°C	VF	-	1.4	-	٧		

Revision 3: 11-Apr-13



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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