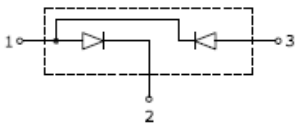
PRELIMINARY DATASHEET

Rectifier Diodes, 2x70A 1600V, Half-Bridge Configuration
In iQPak™ Power Module Package

- High voltage
- High surge capability
- Low thermal resistance
- Industrial standard package



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

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V_{RRM}	1600	V
Maximum average forward current 180° conduction, half sine wave, T_C= 100°C	$I_{F(AV)}$	70	A
Maximum RMS forward current	$I_{F(RMS)}$	110	
Maximum peak, forward, non-repetitive surge current t=10ms, no voltage reapplied, sinusoidal half wave	I_{FSM}	1300	
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			
Thermal resistance, junction to case, per Diode	R_{thJC}	0.33	°C/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_j = 25°C, unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Static Characteristics					
Reverse leakage current V_R = 1600V	I_R	-	-	10	µA
Forward voltage drop I_F = 70A	V_F	-	1.1	-	V

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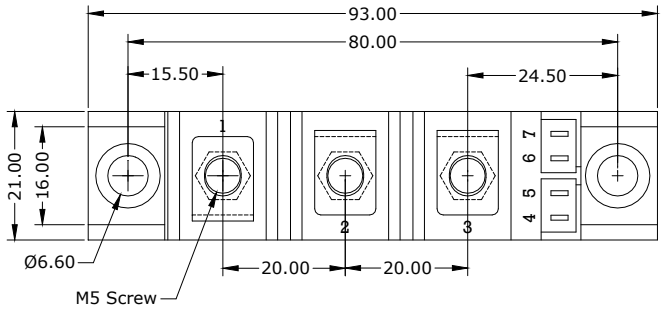
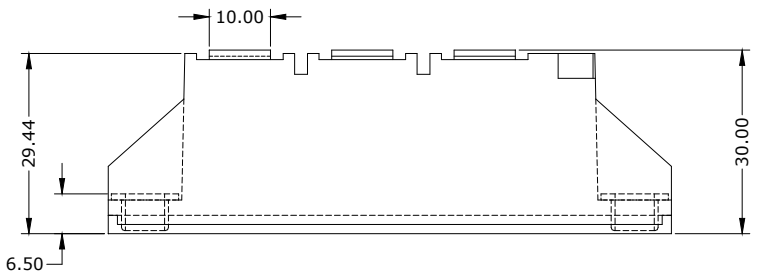
Package Outline Drawing





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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