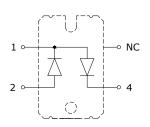


#### **PRELIMINARY DATASHEET**

# 70A, 1600V Rectifier Diodes in Half Bridge Configuration in SOT227 Package

- Low forward voltage
- High surge capability
- 150 °C maximum junction temperature
- Pb-free lead finish; RoHS compliant





# MAXIMUM RATINGS (per Diode), at T<sub>j</sub> = 25°C, unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V <sub>RRM</sub>	1600	V
Average forward current $180^{\circ}$ conduction, half sine wave, $T_C = 100 ^{\circ}$ C	I <sub>F(AV)</sub>	70	A
Peak surge non-repetitive forward current tp=10ms, No voltage reapplied, Half wave sine	IFSM	1300	A
Operating junction and storage temperature	T <sub>j</sub> , T <sub>stg</sub>	-40 +150	°C

# Thermal and Isolation Characteristics

Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	$R_{thJC}$	0.33	°C/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V <sub>iso</sub>	3000	V

#### Electrical Characteristics (per Diode), at T<sub>i</sub> = 25°C, unless otherwise specified

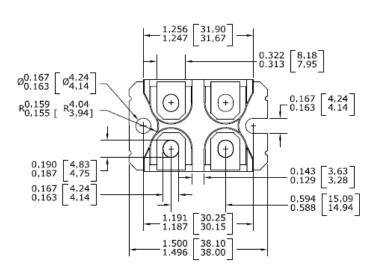
Parameter	Symbol	Value			11
		Min.	Тур.	Max.	Unit
Static Characteristics					
Maximum reverse leakage current $V_R = 1600V$	I <sub>RM</sub>	-	-	10	mA
Forward voltage drop I <sub>F</sub> = 70A	V <sub>F</sub>	-	1.1	-	٧

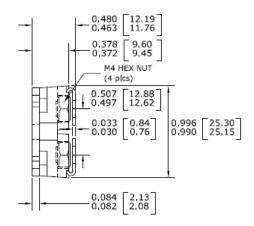
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# **Package Outline Drawing**





#### 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.**