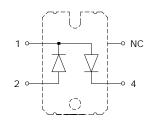


# **PRELIMINARY DATASHEET**

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

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





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

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

### **Thermal and Isolation Characteristics**

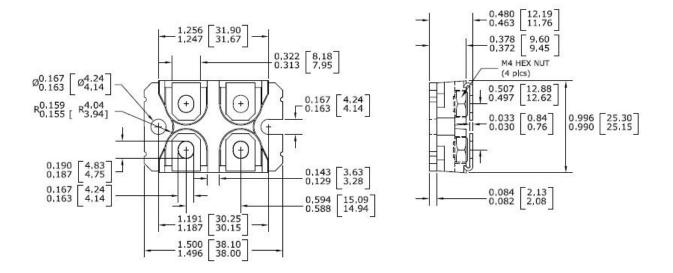
Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	RthJC	0.33	°C/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V <sub>iso</sub>	3000	V

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

Parameter	Symbol	Value			l lasti
		Min.	Тур.	Max.	Unit
Static Characteristics					
Maximum reverse leakage current $V_R = 1600V$	I <sub>RM</sub>	-	-	10	μA
Forward voltage drop $I_F = 70A$	VF	_	1.1	-	V



# 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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