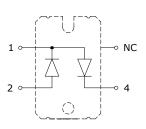


PRELIMINARY DATASHEET

50A, 1600V Rectifier Diodes in Half Bridge Configuration in Isolated 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_i = 25°C, unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V_{RRM}	1600	V
DC forward current Tc= 70°C	l _F	50	
Surge non-repetitive forward current 10 ms sine pulse, rated V _{RRM} applied t _p =10ms, No voltage reapplied, Half wave sine	lfsm	400 475	A
Operating junction and storage temperature	T _j , T _{stg}	-40 +150	°C

Thermal and Isolation Characteristics

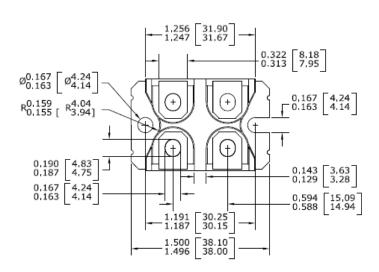
Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	R _{thJC}	0.78	°C/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V _{iso}	3000	٧

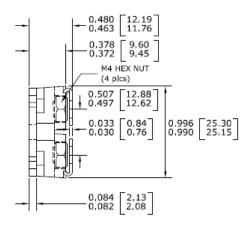
Electrical Characteristics (per Diode), at T_i = 25°C, unless otherwise specified

Parameter	Symbol	Value			11
		Min.	Тур.	Max.	Unit
Static Characteristics					
Reverse leakage current $V_R = 1600V$	I _R	-	-	200	μA
Forward voltage drop I _F = 50A	VF	-	1.1	-	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.