

IQID100R160A3

PRELIMINARY DATASHEET

Rectifier Diodes 100A, 1600V In Isolated SOT227 Package

- High voltage
- High surge capability
- Pb-free lead finish; RoHS compliant



MAXIMUM RATINGS, at $T_j = 25^{\circ}$ C, unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V _{RRM}	1600	V
Average forward current Tc= 100°C	I _{F(AV)}	100	
Maximum RMS forward current	I _{F(RMS)}	157	А
Surge non-repetitive forward current $t_p = 10 \text{ ms}$, no voltage reapplied, half sine wave	IFSM	2020	
Soldering temperature Wave soldering, 1.6 mm (0.063 in.) from case for 10s	Ts	260	°C
Operating junction and storage temperature	Tj, Tstg	-40 +150	_

Thermal and Isolation Characteristics

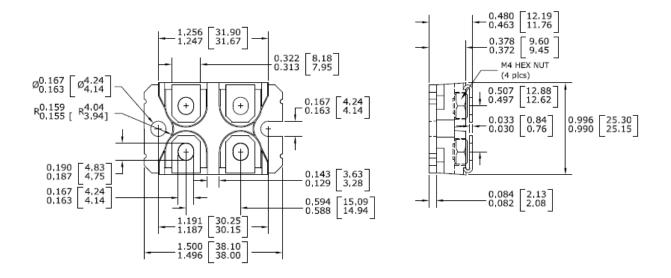
Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	RthJC	0.22	°C/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1 – 3 seconds)	V _{iso}	3000	V

Electrical Characteristics, at T_j = 25°C, unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Тур.	Max.	Unit
Static Characteristics					
Reverse leakage current $V_R = 1600V$	I _R	-	-	10	mA
Forward voltage drop IF = 100A	V _F	-	1.55	-	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.**

© 2008 **iQXPRZ Power Inc.** All rights reserved Team Pacific Building, Electronics Avenue FTI-Complex, Special Economic Zone Taguig City, Philippines **iQXPRZ Power Inc.** reserves the right to change without notice the specifications and information contained within.

Website: www.iqxprzpower.com Telefax +632 837 1538