

PRELIMINARY DATASHEETS

85A, 1600V Rectifier Diodes, in SOT227 Package

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





MAXIMUM RATINGS, at T_i = 25°C, unless otherwise specified

Parameter	Symbol	Value	Units	
Repetitive peak reverse voltage	V_{RRM}	1600	V	
Maximum average forward current T _C = 104 °C	I _F	85		
Surge non-repetitive forward current $t_p = 10$ ms, sine halfwave, no voltage reapplied	I _{FSM}	1500	A	
Operating junction and storage temperature	T _j , T _{stg}	-40 +150	°C	

Thermal and Isolation Characteristics

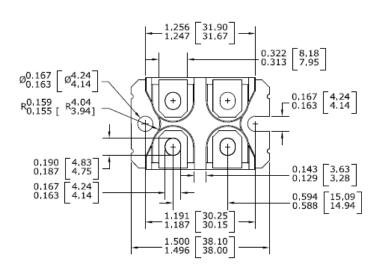
Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	R_{thJC}	0.28	°C/W
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V_{iso}	3000	V

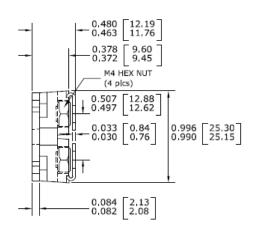
Electrical Characteristics, at T_j = 25°C, unless otherwise specified

Parameter	Symbol	Value			1124
		Min.	Тур.	Max.	Unit
Static Characteristics					
Reverse leakage current $V_R = 1600V$, $T_j = 150 ^{\circ}C$	I _R	-	-	10	mA
Forward voltage drop I _F = 85A	V _F	-	1.14	-	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.**