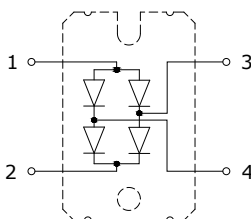


PRELIMINARY DATASHEET
**Rectifier Diodes, 4x25A, 1600V, Single Phase Rectifier
 Bridge Configuration in Isolated SOT227 Package**

- General purpose rectifiers
- Low forward voltage
- Pb-free lead finish; RoHS compliant


MAXIMUM RATINGS (per Diode), at $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V_{RRM}	1600	V
Average forward current $T_c = 90^\circ\text{C}$	I_F	25	A
Surge non-repetitive forward current $T_J = T_{Jmax}, t_p = 10 \text{ ms}, 50\text{Hz, Sine}$	I_{FSM}	300	
Operating junction and storage temperature	T_j, T_{stg}	-40... +150	$^\circ\text{C}$

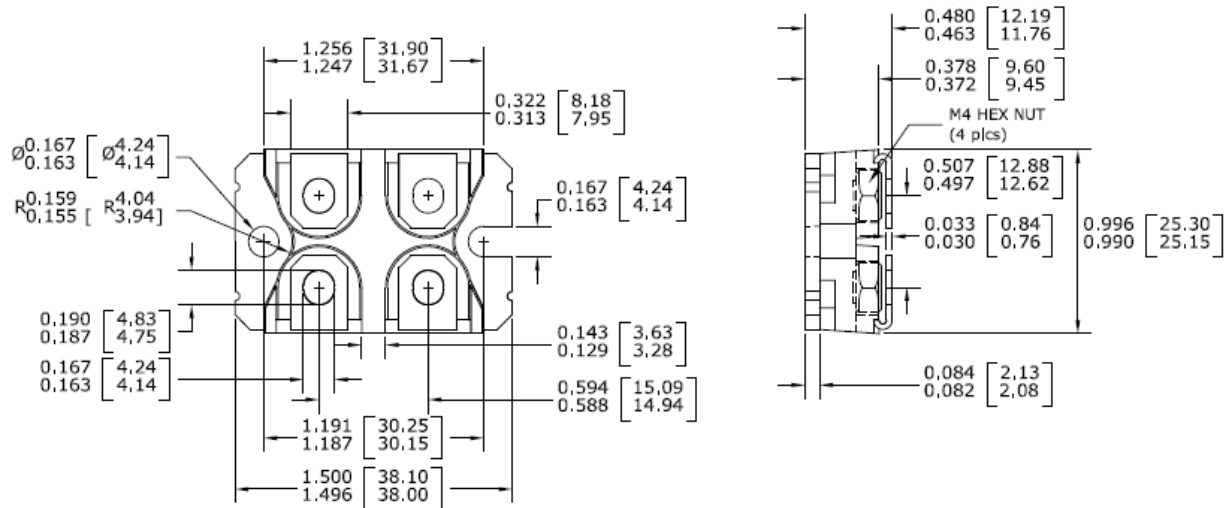
Thermal and Isolation Characteristics

Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	R_{thJC}	1.7	K/W
Thermal resistance, junction to case, module	R_{thJC}	0.43	
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1-3 seconds)	V_{iso}	3000	V

Electrical Characteristics (per Diode), at $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Static Characteristics					
Reverse leakage current At 100% V_{rrm}	I_R	-	-	100	μA
Forward voltage drop $I_F = 25\text{A}$	V_F	-	1.25	-	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.**