

QL200A/1600V

Single-phase Bridge-rectifier



Features

- Low forward voltage drop
- Baseboard AC2500V

Typical Applications

- DC power supply for instrument
- AC/DC motor controls
- Welder machine
- Frequency converter
- Battery charge and discharge

Features

- Convenient installation
- Compact and lightweight
- Sensitive to temperature



■ Maximum Value

Sign	Parameters Name	Rated Value		Unit
		QL200A/1600V		
V _{RRM}	Repetitive peak reverse voltage	1600		V
V _{RSM}	Nonrepetitive peak reverse voltage	1700		V

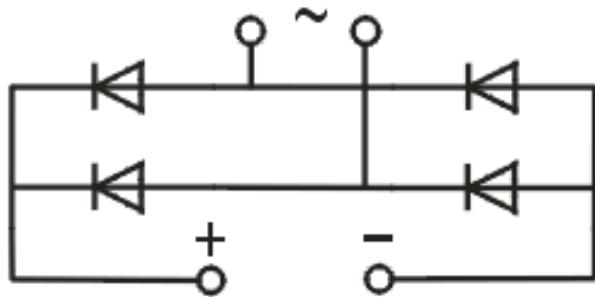
Sign	Parameters Name	Test conditions	Rated Value	Unit
I _{F(AV)}	Average forward current	180° Sinusoid half wave 50HZ Single side heat dissipation T _C =55°C	200	A
I _{FSM}	Peak collector current	t=10ms,50HZ,sin,T _j m	2000	A
I ² t	Maximum rated value I ² t		6000	A ² S
V _{ISO}	Insulation voltage	One minute of communication	2500	V
T _j	Junction temperature		-40 to +150	°C
T _j m	Maximum junction temperature		150	°C
T _{stg}	Storage temperature		-40 to +125	°C
M _d	Mounting power M5		8	N m
W _t	Weight		1000	g

■ Electrical characteristics

Sign	Parameters Name	Test conditions	Rated Value	Unit
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} , Sinusoid half wave,T _j =25°C	300	μA
		V _R =V _{RRM} , Sinusoid half wave,T _j =150°C	40	mA
V _{FM}	Peak forward voltage drop	I _{FM} =200A, T _j =25°C	1.3	V
R _{th(j-c)}	Thermal resistance(junction to case)	Single side heat dissipation, Sinusoid half wave	2.0	°C/W

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(a) Circuit Diagram



(b) Dimensions

