

# SQL100A/1600V



## Three-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
		SQL100A/1600V	
V <sub>RRM</sub>	Repetitive peak reverse voltage	1600	V
V <sub>RSM</sub>	Nonrepetitive peak reverse voltage	1700	V

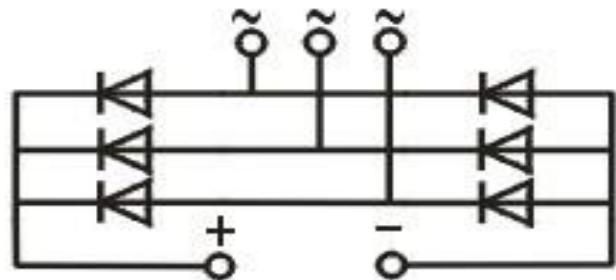
Sign	Parameters Name	Test conditions	Rated Value	Unit
I <sub>F(AV)</sub>	Average forward current	180° Sinusoid half wave 50HZ Single side heat dissipation T <sub>C</sub> =55°C	100	A
I <sub>FSM</sub>	Peak collector current	t=10ms,50HZ,sin,Tjm	1000	A
I <sup>2</sup> t	Maximum rated value I <sup>2</sup> t		3000	A <sup>2</sup> s
V <sub>ISO</sub>	Insulation voltage	One minute of communication	2500	V
T <sub>j</sub>	Junction temperature		-40 to +150	°C
T <sub>jm</sub>	Maximum junction temperature		150	°C
T <sub>stg</sub>	Storage temperature		-40 to +125	°C
Md	Mounting power M5		5	N m
W <sub>t</sub>	Weight		240	g

### ■ Electrical characteristics

Sign	Parameters Name	Test conditions	Rated Value	Unit
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> , Sinusoid half wave,Tj=25°C	150	μA
		V <sub>R</sub> =V <sub>RRM</sub> , Sinusoid half wave,Tj=150°C	30	mA
V <sub>FM</sub>	Peak forward voltage drop	I <sub>FM</sub> =100A, Tj=25°C	1.2	V
R <sub>th(j-c)</sub>	Thermal resistance(junction to case)	Single side heat dissipation, Sinusoid half wave	1.6	°C/W

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( a ) Circuit Diagram



( b ) Dimensions

