

SQL60A/1600V



Three-phase Bridge-rectifier

Features

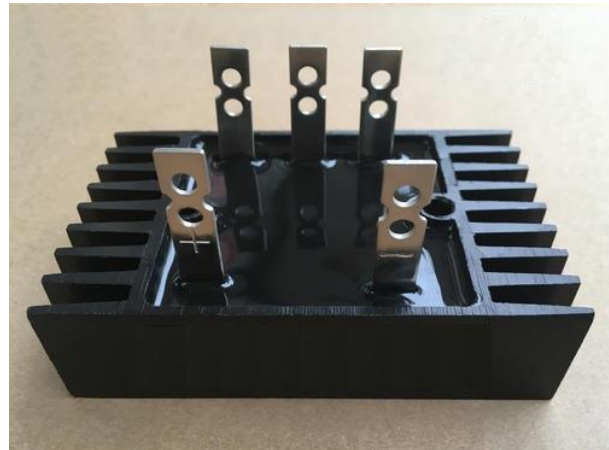
- Low forward voltage drop
- Baseboard AC2500V

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
		SQL60A/1600V	
V_{RRM}	Repetitive peak reverse voltage	1600	V
V_{RSM}	Nonrepetitive peak reverse voltage	1700	V

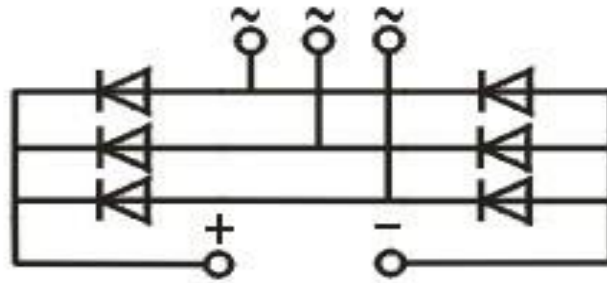
Sign	Parameters Name	Test conditions	Rated Value	Unit
$I_{F(AV)}$	Average forward current	180° Sinusoid half wave 50HZ Single side heat dissipation $T_C=55^{\circ}C$	60	A
I_{FSM}	Peak collector current	$t=10ms, 50HZ, sin, T_{jm}$	600	A
I^2t	Maximum rated value I^2t		2000	A^2S
V_{ISO}	Insulation voltage	One minute of communication	2500	V
T_j	Junction temperature		-40 to +150	$^{\circ}C$
T_{jm}	Maximum junction temperature		150	$^{\circ}C$
T_{stg}	Storage temperature		-40 to +125	$^{\circ}C$
M_d	Mounting power M5		5	N m
W_t	Weight		240	g

■ Electrical characteristics

Sign	Parameters Name	Test conditions	Rated Value	Unit
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$, Sinusoid half wave, $T_j=25^{\circ}C$	120	μA
		$V_R=V_{RRM}$, Sinusoid half wave, $T_j=150^{\circ}C$	25	mA
V_{FM}	Peak forward voltage drop	$I_{FM}=100A$, $T_j=25^{\circ}C$	1.2	V
$R_{th(j-c)}$	Thermal resistance(junction to case)	Single side heat dissipation, Sinusoid half wave	1.6	$^{\circ}C/W$

Three-phase Bridge-rectifier SQL60A/1600V

(a) Circuit Diagram



(b)Dimensions

