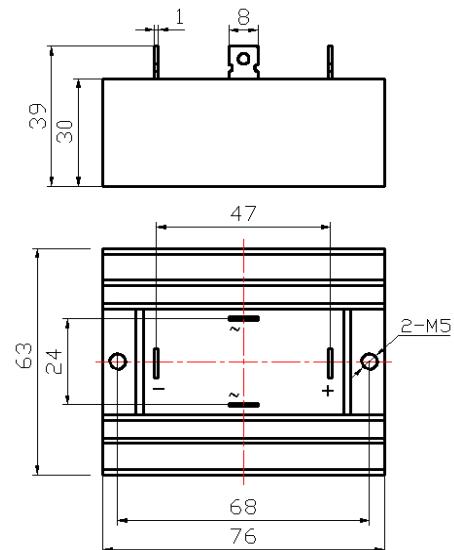
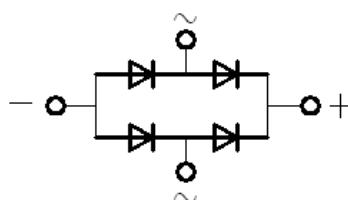


**Feature**

- Low forward voltage drop
- Isolation voltage 2000V ~

**Application**

- Power supply for DC power device
- Input rectifier for PWM convertor
- Power supply for DC device

**Advantage**

- Easy mounting
- Low thermal resistance, high heat-conduction rate, low temperature rise

**■ Maximum value**

Symbol	Parameter	Rating		Unit
		QL5010S		
$V_{RRM}$	Peak reverse repetitive voltage	1000		V
$V_{RSM}$	Peak reverse non-repetitive voltage	1100		V

Symbol	Parameter	Test condition	Rating	Unit
$I_{F(AV)}$	Forward average current	180° sine half-wave 50HZ single-sided heat dissipation $T_C=55^\circ C$	50	A
$I_{FSM}$	Forward surge current	$t=10ms, 50HZ, \sin, T_{jm}$	450	A
$I^2t$	$I^2t$ value		840	$A^2S$
$V_{ISO}$	Isolation voltage	50Hz, R.M.S, $t=1min$ , $I_{iso}:1mA(max)$	2000	V
$T_j$	Operating junction temperature		-40 to +150	$^\circ C$
$T_{jm}$	Rated junction temperature		150	$^\circ C$
$T_{stg}$	Storage temperature		-40 to +125	$^\circ C$
$M_d$	Mounting torque M5		2	N·m
$W_t$	Weight		130	g

**■ Electrical characteristics**

Symbol	Parameter	Test condition	Rating	Unit
$I_{RRM}$	Peak reverse repetitive current	$V_R=V_{RRM}$ , sine half-wave, $T_j=25^\circ C$	5	$\mu A$
		$V_R=V_{RRM}$ , sine half-wave $T_j=150^\circ C$	3	mA
$V_{FM}$	Peak forward voltage	$I_{FM}=75A$ , $T_j=25^\circ C$	1.3	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-sided heat dissipation, sine half-wave	1.6	$^\circ C/W$