

### INCHANGE SEMICONDUCTOR

## L4004L8

#### FEATURES

- With TO-220AB(Isolated) non insulated package
- Suitable for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

T1(1) G(3) T2(2) TO-220 package

SYMBOL	PARAMETER	MIN	UNIT	
$V_{DRM}$	Repetitive peak off-state voltage	400	V	
$V_{RRM}$	Repetitive peak off-state voltage	400	V	
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave) Tc=	4	Α	
I <sub>TSM</sub>	Non-repetitive peak on-state current	f=50Hz	33	A
		f=60Hz	40	
Tj	Operating junction temperature	-40~110	°C	
T <sub>stg</sub>	Storage temperature	-40~125	°C	
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	3.6	°C/W	
R <sub>th(j-a)</sub>	Thermal resistance, junction to ambient	50	°C/W	

#### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

#### ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	МАХ	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current		V <sub>R</sub> =V <sub>RRM</sub> , V <sub>R</sub> =V <sub>RRM</sub> , Tj=110℃	10 200	uA
I <sub>DRM</sub>	Repetitive peak off-state current		V <sub>D</sub> =V <sub>DRM</sub> , V <sub>D</sub> =V <sub>DRM</sub> , Tj=110℃	10 200	uA
I <sub>GT</sub>	Gate trigger current	IIII IV	$V_{D}$ =12V; R <sub>L</sub> = 60Ω	10 20	mA
I <sub>H</sub>	Holding current		I <sub>GT</sub> = 100mA, Gate Open	15	mA
V <sub>GT</sub>	Gate trigger voltage all quadrant		$V_{D}$ =12V; R <sub>L</sub> = 60 $\Omega$	2	V
$V_{TM}$	On-state voltage		I <sub>T</sub> = 4A; t <sub>p</sub> = 380µ s	1.6	V

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