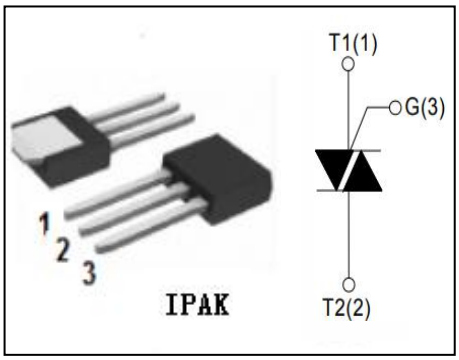
isc Triacs L6004V3

FEATURES

- With TO-251 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



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		600	V
V_{RRM}	Repetitive peak off-state voltage		600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave) Tc=95℃		4	A
I_{TSM}	Non-repetitive peak on-state current	f=50Hz	33	A
		f=60Hz	40	
T_j	Operating junction temperature		-40~110	℃
T_{stg}	Storage temperature		-40~125	℃
$R_{th(j-c)}$	Thermal resistance, junction to case		3.6	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient		50	℃/W

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$, $V_R=V_{RRM}$, Tj=110℃	10 200	uA
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$, $V_D=V_{DRM}$, Tj=110℃	10 200	uA
I_{GT}	Gate trigger current （Ⅰ—Ⅳ）	V_D=12V; R_L= 60Ω	3	mA
I_H	Holding current	I_{GT}= 100mA, Gate Open	5	mA
V_{GT}	Gate trigger voltage all quadrant	V_D=12V; R_L= 60Ω	2	V
V_{TM}	On-state voltage	I_T= 4A; t_p= 380 μs	1.6	V

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