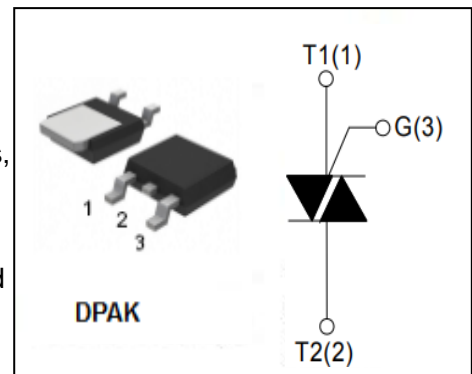


## isc Triacs

## L4004D3

## FEATURES

- With TO-252 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( $T_a=25^\circ\text{C}$ )

SYMBOL	PARAMETER	MIN	UNIT
$V_{\text{DRM}}$	Repetitive peak off-state voltage	400	V
$V_{\text{RRM}}$	Repetitive peak off-state voltage	400	V
$I_{\text{T(RMS)}}$	RMS on-state current (full sine wave) $T_c=95^\circ\text{C}$	4	A
$I_{\text{TSM}}$	Non-repetitive peak on-state current	$f=50\text{Hz}$	33
		$f=60\text{Hz}$	40
$T_j$	Operating junction temperature	-40~110	$^\circ\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~125	$^\circ\text{C}$
$R_{\text{th(j-c)}}$	Thermal resistance, junction to case	3.6	$^\circ\text{C/W}$
$R_{\text{th(j-a)}}$	Thermal resistance, junction to ambient	50	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$  unless otherwise specified)

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

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