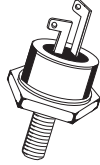


2N1772A
2N1774A
2N1776A
2N1777A

SILICON CONTROLLED RECTIFIER
8 AMP, 100 THRU 400 VOLTS



TO-64 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N1772A Series types are reverse blocking triode thyristors, designed for use in low power switching and phase control applications requiring blocking voltages up to 400 volts, and RMS load currents up to 8 amps.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	2N1772A	2N1774A	2N1776A	2N1777A	UNITS
Peak Repetitive Off-State Voltage	$V_{\text{DRM}}, V_{\text{RRM}}$	100	200	300	400	V
Peak Non-Repetitive Off-State Voltage	$V_{\text{DRM}}, V_{\text{RRM}}$	150	300	400	500	V
Peak Forward Voltage	V_{FM}			480		V
Peak Gate Voltage	$V_{\text{GFM}}, V_{\text{GRM}}$			10		V
RMS On-State Current	$I_{\text{T(RMS)}}$			8.0		A
Average On-State Current ($T_C=105^\circ\text{C}$)	I_{O}			4.7		A
Peak Forward Gate Current	I_{GFM}			2.0		A
Peak Forward Surge Current	I_{FSM}			60		A
I^2t Value for Fusing, $t_p=8.3\text{ms}$	I^2t			15		A^2s
Peak Gate Power Dissipation	P_{GM}			5.0		W
Average Gate Power Dissipation	$P_{\text{G(AV)}}$			0.5		W
Operating and Storage Junction Temperature	$T_{\text{J}}, T_{\text{stg}}$		-40 to +150			$^\circ\text{C}$
Thermal Resistance	Θ_{JC}			3.1		$^\circ\text{C/W}$

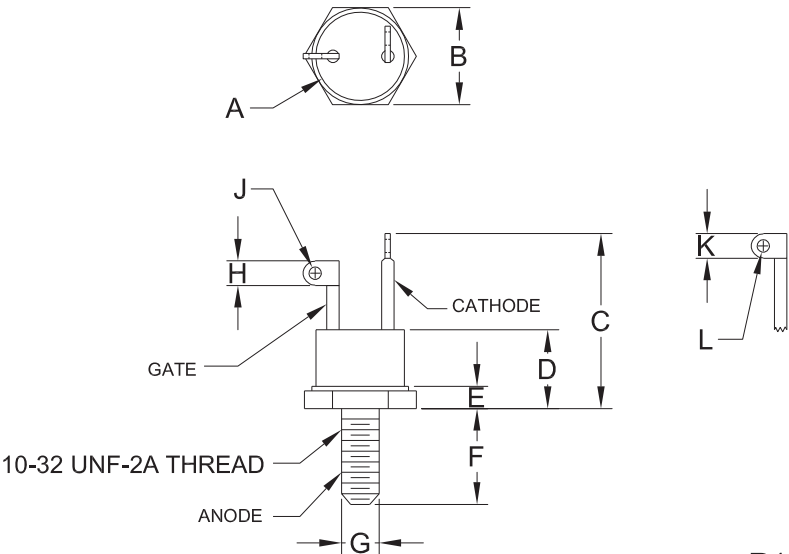
ELECTRICAL CHARACTERISTICS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_{\text{DRM}}, I_{\text{RRM}}$	$V_{\text{DRM}}, V_{\text{RRM}}=100\text{V}$		9.0	mA
$I_{\text{DRM}}, I_{\text{RRM}}$	$V_{\text{DRM}}, V_{\text{RRM}}=200\text{V}$		6.0	mA
$I_{\text{DRM}}, I_{\text{RRM}}$	$V_{\text{DRM}}, V_{\text{RRM}}=300\text{V}$		4.0	mA
$I_{\text{DRM}}, I_{\text{RRM}}$	$V_{\text{DRM}}, V_{\text{RRM}}=400\text{V}$		2.0	mA
I_{GT}	$V_{\text{AK}}=12\text{V}, R_{\text{L}}=250\Omega$		15	mA
V_{GT}	$V_{\text{AK}}=12\text{V}, R_{\text{L}}=250\Omega$		2.0	V
V_{TM}	$I_{\text{T}}=15\text{A}$		1.85	V
I_{H}	$I_{\text{T}}=100\text{mA}$		25	mA

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8 AMP, 100 THRU 400 VOLTS



TO-64 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	-	0.424	-	10.77
B	0.424	0.437	10.77	11.10
C	0.700	0.855	17.78	21.72
D	0.300	0.400	7.62	10.16
E	0.060	0.175	1.52	4.45
F	0.400	0.453	10.16	11.51
G (DIA)	0.166	0.170	4.21	4.31
H	0.080	0.136	2.03	3.45
J (DIA)	0.040	0.075	1.02	1.91
K	0.080	0.136	2.03	3.45
L (DIA)	0.040	0.075	1.02	1.91

TO-64 (REV: R1)

MARKING: FULL PART NUMBER

R1 (16-March 2011)