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DESCRIPTION:

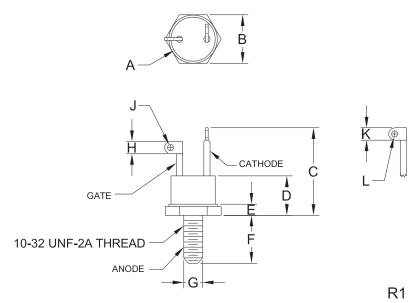
The CENTRAL SEMICONDUCTOR 2N1772A series devices are reverse blocking triode thyristors designed for use in low power switching and phase control applications requiring blocking voltages up to 400 volts, and RMS load currents up to 7.4 amps.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C unless otherwise noted)							
		SYMBOL	<u>2N1772A</u>	<u>2N1774A</u>	2N1776A		-
•	ve Off-State Voltage	VDRM	100	200	300	400	V
Peak Repetitive Reverse Voltage		VRRM	100	200	300	400	V
Peak Non-Repetitive Reverse Voltage		VRSM	150	300	400	500	V
	e Gate Voltage	VRGM			0		V
		IT(RMS)			.4		A
Average On-State Current (T _C =105°C)		I _O	4.7			A	
	I Gate Current	^I FGM	2.0			A	
Peak One Cycle Surge Current (60Hz)		ITSM	60			A	
	using, tp=8.3ms	l ² t	15			A ² s	
Critical Rate of	of Rise of On-State Current	di/dt	60			A/µs	
Peak Gate Po	ower Dissipation	PGM		5	.0		W
Average Gate	Power Dissipation	PG(AV)		0	.5		W
Operating Junction Temperature		Τj	-65 to +125				°C
Storage Temperature		T _{stg}	-65 to +150			°C	
Thermal Resistance		Θ _{JČ}	3.1			°C/W	
Mounting Torque		-		1	5		in-lb
Mounting Torque (metric)		-		17	.5		kg-cm
ELECTRICAL	CHARACTERISTICS: (TJ=25°C	unless other	vise noted)				
SYMBOL	TEST CONDITIONS	MIN	TYP			UNITS	
IDRM	V _{DRM} =100V, T _J =125°C			9	.0	mA	
IRRM	V _{RRM} =100V, T _J =125°C			9	.0	mA	
IDRM	V _{DRM} =200V, T _J =125°C			6	.0	mA	
IRRM	V _{RRM} =200V, T _J =125°C			6	.0	mA	
IDRM	V _{DRM} =300V, T _J =125°C			4	.0	mA	
IRRM	V _{RRM} =300V, T _J =125°C			4	.0	mA	
IDRM	V _{DRM} =400V, T _J =125°C			2	.0	mA	
IRRM	V _{RRM} =400V, T _J =125°C			2	.0	mA	
IGT	V _D =12V, R _L =250Ω			1	5	mA	
IGT	V _D =12V, R _L =250Ω, T _J =-65°C			3	0	mA	
V _{GT}	V _D =12V, R _L =250Ω, T _J =150°C			2	.0	V	
V _{GD}	V _D =100V, R _I =250Ω, T _J =150°C	0.2				V	
VTM	I _T =15A			1.	85	V	
I _H	V _D =24V, R _L =20Ω, T _J =25°C			2	5	mA	
dv/dt	-		20			V/µs	
					R	3 (20-Mar	ch 2019)



TO-64 CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	-	0.424	-	10.77	
В	0.424	0.437	10.77	11.10	
С	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	
Н	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	

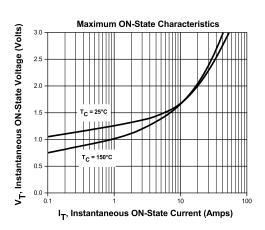
TO-64 (REV: R1)

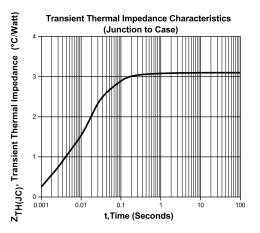
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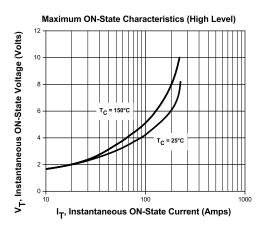
R3 (20-March 2019)

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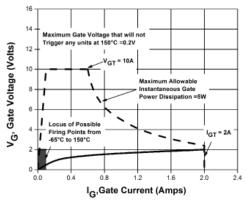








TYPICAL ELECTRICAL CHARACTERISTICS

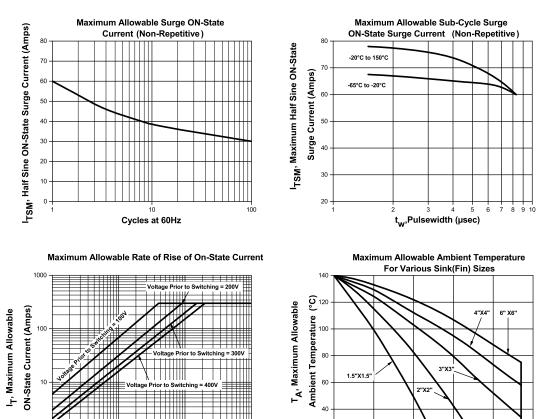


Gate Characteristics

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100

20

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TYPICAL ELECTRICAL CHARACTERISTICS

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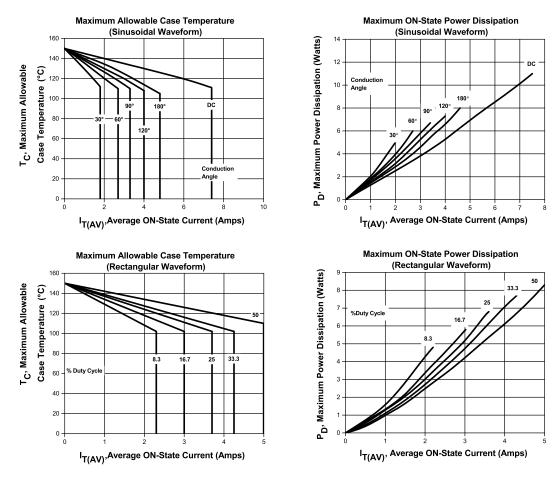
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 t_r ,Time From Start Of Current Flow (µsec)

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I_{T(AV)},Average ON-State Current (Amps)





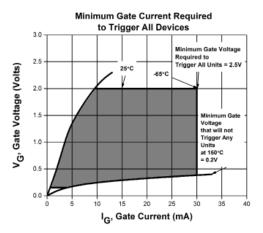
TYPICAL ELECTRICAL CHARACTERISTICS

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TYPICAL ELECTRICAL CHARACTERISTICS



R3 (20-March 2019)

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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Product End of Life Notification

PDN ID:	PDN01150
Notification Date:	6/05/20
Last Buy Date:	Stock Only
Last Shipment Date	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



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Product End of Life Notification

PDN ID:	PDN01150
Notification Date:	6/05/20
Last Buy Date:	
Last Shipment Date	Stock Only

Summary: All Silicon Controlled Rectifiers in the TO-64 package are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
2N1772A	N/A, Stock Only
2N1776A	N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor: 2N1776A 2N1776A PBFREE