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[Central Semiconductor Corp](#)
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CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

www.centrasemi.com

CN645 THRU CN649

GLASS PASSIVATED JUNCTION
GENERAL PURPOSE DIODE

DO-41SP CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CN645 Series types are Glass Passivated Junction general-purpose diodes, which are well constructed, highly reliable components designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

	SYMBOL	CN645	CN646	CN647	CN648	CN649	UNITS
Peak Working Reverse Voltage	V _{RWM}	225	300	400	500	600	V
Average Forward Current	I _O			400			mA
Average Forward Current (T _A =150°C)	I _O			150			mA
Peak Forward Surge Current	I _{FSM}			3.0			A
Power Dissipation	P _D			600			mW
Operating and Storage Junction Temperature	T _J , T _{stg}			-65 to 150			°C

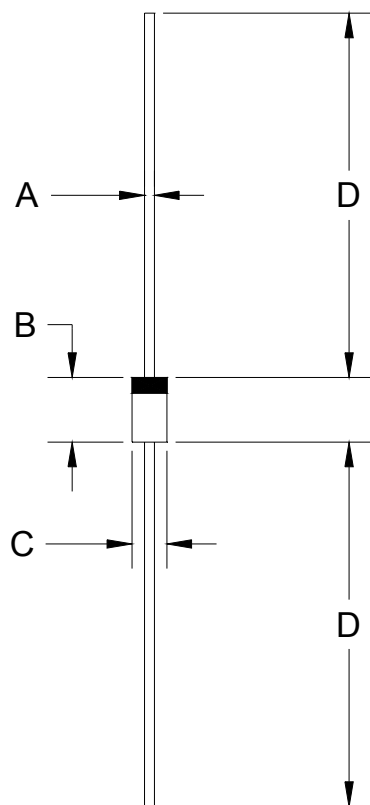
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	CN645		CN646		CN647		CN648		CN649		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
V _{BR}	I _R =100μA, T _A =100°C	275		360		480		600		720		V
I _R	V _R =RATED V _{RWM} , T _A =100°C		15		15		20		20		25	μA
I _R	V _R =RATED V _{RWM}		0.2		0.2		0.2		0.2		0.2	μA
V _F	I _F =400mA		1.0		1.0		1.0		1.0		1.0	V
C _T	V _R =12V, f=1.0MHz		11 TYP		11 TYP		11 TYP		11 TYP		11 TYP	pF

CN645 SERIES

GLASS PASSIVATED, GENERAL PURPOSE DIODE

DO-41SP PACKAGE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.021	0.025	0.53	0.64
B	0.160	0.205	4.06	5.21
C	0.080	0.107	2.03	2.72
D	1.000	-	25.40	-

DO-41SP (REV: R1)

R1

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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
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

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- Free quick ship samples (2nd day air)
- Online technical data and parametric search
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- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

CONTACT US

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