

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.

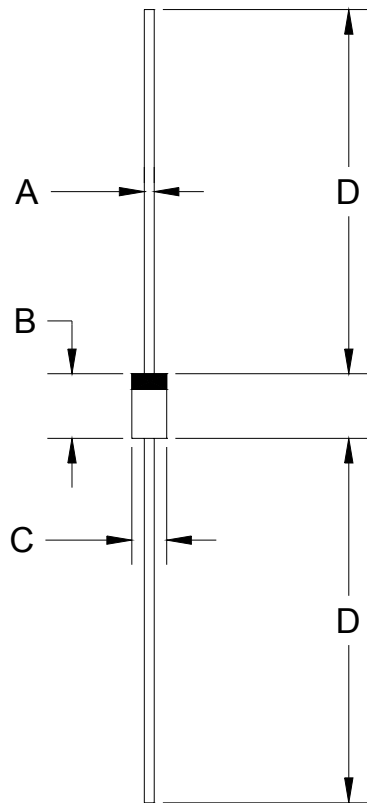
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	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 ($T_A=150^\circ\text{C}$)	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			$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	CN645		CN646		CN647		CN648		CN649		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
V_{BR}	$I_R=100\mu\text{A}, T_A=100^\circ\text{C}$	275		360		480		600		720		V
I_R	$V_R=\text{RATED } V_{RWM}, T_A=100^\circ\text{C}$	15		15		20		20		25		μA
I_R	$V_R=\text{RATED } V_{RWM}$	0.2		0.2		0.2		0.2		0.2		μA
V_F	$I_F=400\text{mA}$		1.0		1.0		1.0		1.0		1.0	V
C_T	$V_R=12\text{V}, f=1.0\text{MHz}$	11 TYP		11 TYP		11 TYP		11 TYP		11 TYP		pF

(SEE REVERSE SIDE)

DO-41SP PACKAGE - MECHANICAL OUTLINE

SYMBOL	DIMENSIONS			
	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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