Central™
Semiconductor Corp.
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Manufacturers of World Class Discrete Semiconductors
www.centralsemi.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)

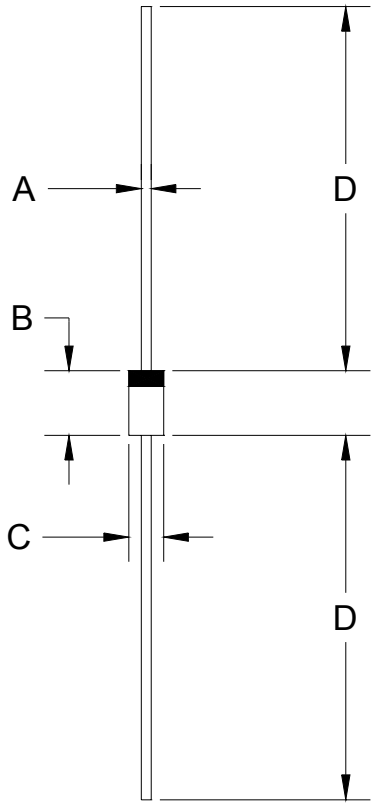
	SYMBOL	CN645	CN646	CN647	CN648	CN649	UNITS
Peak Working Reverse Voltage	V_{RWM}	225	300	400	500	600	V
Average Forward Current	I_O			400			mA
Average Forward Current (T_A=150°C)	I_O			150			mA
Peak Forward Surge Current	I_{FSM}			3.0			A
Power Dissipation	P_D			600			mW
Operating and Storage Junction Temperature	T_J,T_{stg}			-65 to 150			°C

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

		CN645		CN646		CN647		CN648		CN649		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
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	IF=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

(SEE REVERSE SIDE)

DO-41SP PACKAGE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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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