

# DIGITRON SEMICONDUCTORS

1N5826-1N5828

15 AMP SCHOTTKY RECTIFIER

## MAXIMUM RATINGS

Symbol	Characteristics	Value
T <sub>STG</sub>	Storage Temperature Range	-55 to +175°C
T <sub>J</sub>	Operating Junction Temperature Range	-55 to +150°C
R <sub>θJC</sub>	Maximum Thermal Resistance	1.6°C/W Junction to case
R <sub>θJS</sub>	Typical Thermal Resistance (greased)	0.5°C/W Case to sink
	Mounting Torque	12-15 inch pounds
	Weight	0.2 ounces (6.0 grams) typical

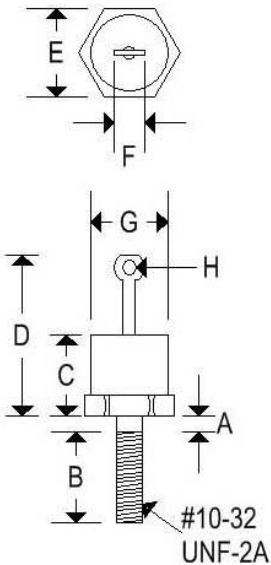
## ELECTRICAL CHARACTERISTICS

Symbol	Characteristic	Conditions	Value
I <sub>F(AV)</sub>	Average Forward Current	T <sub>C</sub> = 117°C, square wave, R <sub>θJC</sub> = 1.6°C/W	15 A
I <sub>FSM</sub>	Maximum Surge Current	8.3ms, half-sine T <sub>J</sub> = 150°C	600 A
I <sub>R(OV)</sub>	Maximum Repetitive Peak Reverse Current	f = 1 KHz, 25°C, 1 μsec square wave	2 A
V <sub>FM</sub>	Maximum Peak Forward - 1N5826	I <sub>FM</sub> = 40A, T <sub>J</sub> = 25°C*	.67 V
V <sub>FM</sub>	Maximum Peak Forward - 1N5827	I <sub>FM</sub> = 40A, T <sub>J</sub> = 25°C*	.77 V
V <sub>FM</sub>	Maximum Peak Forward - 1N5828	I <sub>FM</sub> = 40A, T <sub>J</sub> = 25°C*	.87 V
I <sub>RM</sub>	Maximum Peak Reverse Current	V <sub>RRM</sub> = T <sub>J</sub> = 25°C	2 mA
C <sub>J</sub>	Typical Junction Capacitance	V <sub>R</sub> = 5.0 V, T <sub>J</sub> = 25°C	1200 pF

\* Pulse test: Pulse width 300 μsec, duty cycle 2%

## MECHANICAL CHARACTERISTICS

Case	DO-4
Marking	Body painted, alpha-numeric
Polarity	Cathode is stud, reverse = anode is stud



	DO-4			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.078	-	1.981
B	0.422	0.453	10.719	11.506
C	-	0.405	-	10.287
D	-	0.800	-	20.320
E	0.420	0.440	10.668	11.176
F	-	0.250	-	6.350
G	-	0.424	-	10.770
H	0.066	-	1.676	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

144 Market Street  
Kenilworth NJ 07033 USA

phone +1.908.245-7200  
fax +1.908.245-0555

sales@digitroncorp.com  
www.digitroncorp.com

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