

1N5826-1N5828

15A SCHOTTKY RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Symbol	Characteristics	Value
T _{STG}	Storage Temperature Range	-55 to +175°C
T _J	Operating Junction Temperature Range	-55 to +150°C
R _{θJC}	Maximum Thermal Resistance	1.6°C/W Junction to case
R _{θJS}	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 (T_A = 25°C unless otherwise specified)

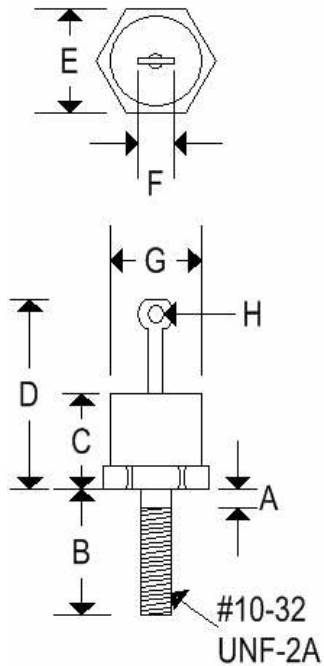
Symbol	Characteristic	Conditions	Value
I _{F(AV)}	Average Forward Current	T _C = 117°C, square wave, R _{θJC} = 1.6°C/W	15 A
I _{FSM}	Maximum Surge Current	8.3ms, half-sine T _J = 150°C	600 A
I _{R(OV)}	Maximum Repetitive Peak Reverse Current	f = 1 KHz, 25°C, 1 μsec square wave	2 A
V _{FM}	Maximum Peak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

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MECHANICAL CHARACTERISTICS

Case	DO-4(R)
Marking	Alpha-numeric
Normal polarity	Cathode is stud
Reverse polarity	Anode is stud (add "R" suffix)



	DO-4(R)			
	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	-

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