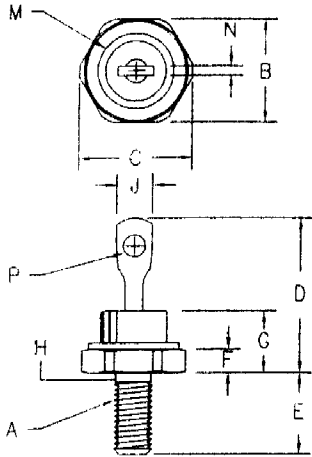


15 Amp Schottky Rectifier 1N5826 — 1N5828



- Notes:
1. 10-32 UNF3A threads
 2. Full threads within 2 1/2 threads
 3. Standard Polarity:
Stud is Cathode
Reverse Polarity: Stud is Anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1
B	.424	.437	10.77	11.10	
C	---	.505	---	12.82	
D	.600	.800	15.24	20.32	
E	.422	.453	10.72	11.50	
F	.075	.175	1.91	4.44	
G	---	.405	---	10.29	
H	.163	.189	4.15	4.80	2
J	---	.310	---	7.87	
M	---	.350	---	8.89	Dia.
N	.020	.065	.510	1.65	
P	.060	.100	1.53	2.54	Dia.

D0203AA (D04)

Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N5826	20V	20V
1N5827	30V	30V
1N5828	40V	40V

*Add the Suffix R for Reverse Polarity

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- VRRM - 20 to 40V
- 15 Amperes
- Reverse Energy Tested

Electrical Characteristics		
Average forward current	IF(AV) 15 Amps	TC = 117°C, Square wave, RθJC = 1.6°C/W
Maximum surge current	IFSM 600 Amps	3.3 ms, half sine TJ = 150°C
Max repetitive peak reverse current	IR(OV) 2 Amps	f = 1 KHz, 25°C, 1 μsec Square wave
Max peak forward voltage-1N5826	VFM .67 Volts	IFM = 40A; TJ = 25°C*
Max peak forward voltage-1N5827	VFM .77 Volts	IFM = 40A; TJ = 25°C*
Max peak forward voltage-1N5828	VFM .87 Volts	IFM = 40A; TJ = 25°C*
Max peak reverse current	IRM 2 mA	VRRM, TJ = 25°C
Typical junction capacitance	CJ 1200 pF	VR = 5.0V, TJ = 25°C

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temp range	TSTG	-55°C to 175°C
Operating junction temp range	TJ	-55°C to 150°C
Max thermal resistance	RθJC	1.6°C/W Junction to case
Typical thermal resistance (greased)	RθCS	0.5°C/W Case to sink
Mounting torque		12-15 inch pounds
Weight		0.2 ounces (6.0 grams) typical

