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PART 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

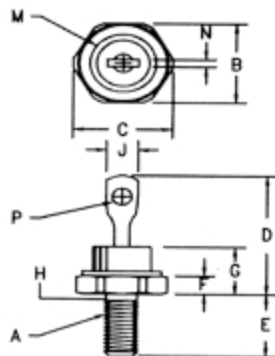
### Electrical Characteristics

Average forward current	$I_F(AV)$ 15 Amps	$T_C = 117^\circ C$ , Square wave, $R_{\theta JC} = 1.6^\circ C/W$
Maximum surge current	$I_{FSM}$ 600 Amps	8.3 ms, half sine $T_J = 150^\circ C$
Max repetitive peak reverse current	$I_R(OV)$ 2 Amps	$f = 1$ KHz, $25^\circ C$ , 1 $\mu$ sec Square wave
Max peak forward voltage-1N5826	VFM .67 Volts	$I_{FM} = 40A: T_J = 25^\circ C^*$
Max peak forward voltage-1N5827	VFM .77 Volts	$I_{FM} = 40A: T_J = 25^\circ C^*$
Max peak forward voltage-1N5828	VFM .87 Volts	$I_{FM} = 40A: T_J = 25^\circ C^*$
Max peak reverse current	IRM 2 mA	VRRM, $T_J = 25^\circ C$
Typical junction capacitance	$C_J$ 1200 pF	VR = 5.0V, $T_J = 25^\circ C$

\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

### Thermal and Mechanical Characteristics

Storage temp range	TSTG	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	$T_J$	$-55^\circ C$ to $150^\circ C$
Max thermal resistance	$R_{\theta JC}$	$1.6^\circ C/W$ Junction to case
Typical thermal resistance (greased)	$R_{\theta CS}$	$0.5^\circ C/W$ Case to sink
Mounting torque		12-15 inch pounds
Weight		0.2 ounces (6.0 grams) typical



#### Notes:

- 10-32 UNF3A threads
- Full threads within 2 1/2 threads
- 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.

D0-4 CASE