



Micro Commercial Components
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1N5826

THRU

1N5828

Features

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

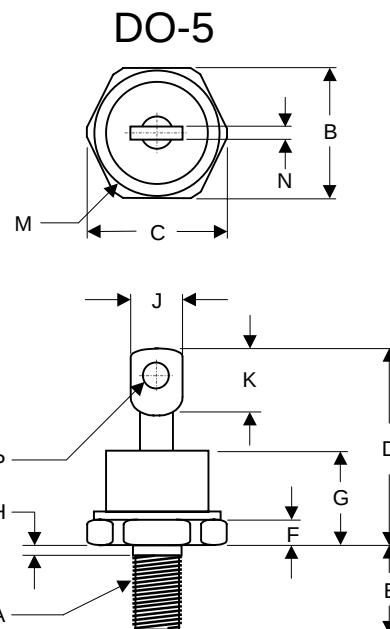
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5826	20V	14V	20V
1N5827	30V	21V	30V
1N5828	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15 A	$T_L = 85^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 5826 5827 5828	V_F	.44V .47V .50V	$I_{FM} = 15\text{A};$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10mA	$T_A = 25^\circ\text{C}$

*Pulse Test: Pulse Width 300μsec, Duty Cycle 1%

15 Amp Schottky Barrier Rectifier 20 to 40 Volts

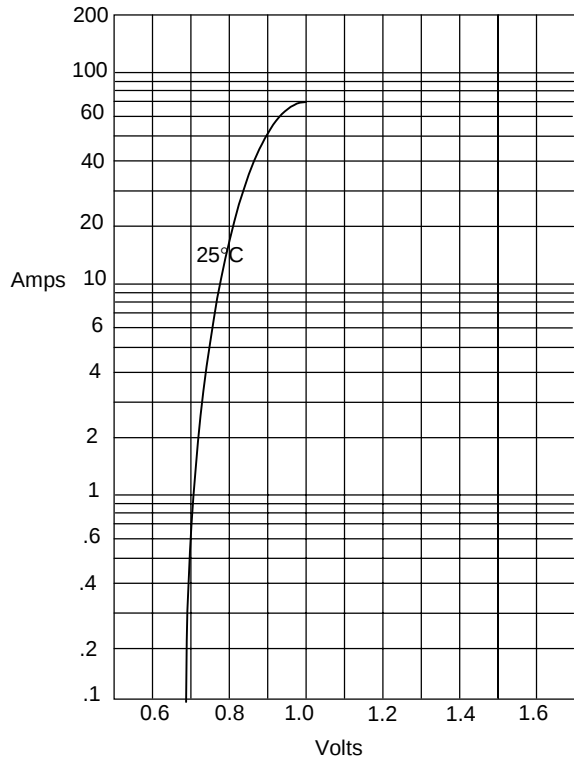


DIMENSIONS					
DIM	INCH ES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1/4-28	Threads	Standard	Polarity	
B	.669	.687	17.19	17.44	
C	----	.794	----	20.16	
D	----	1.000	----	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	----	.450	----	11.43	
H	.220	.249	5.58	6.32	
J	----	.375	----	9.52	
K	.156	----	3.96	----	
M	----	.667	----	16.94	Ø
N	----	.080	----	2.03	
P	.140	.175	3.56	4.45	Ø

1N5826 thru 1N5828

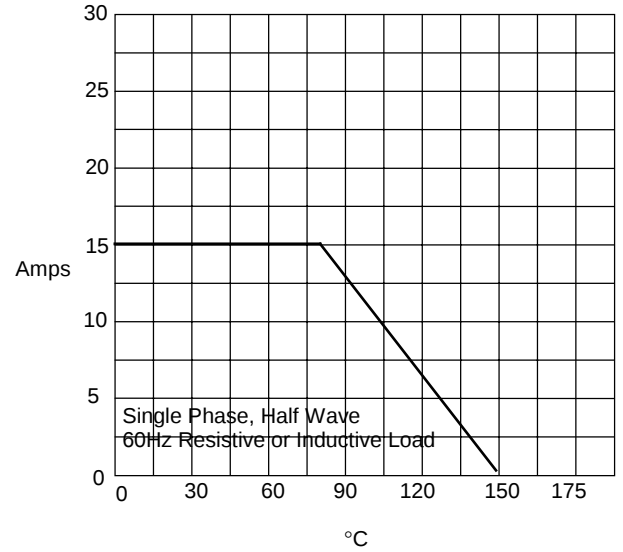
•M•C•C•

Figure 1
Typical Forward Characteristics



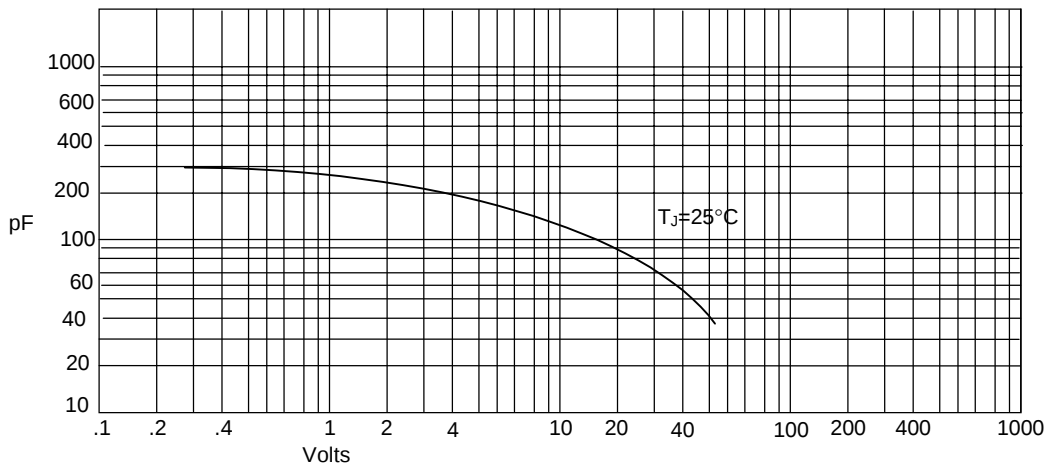
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



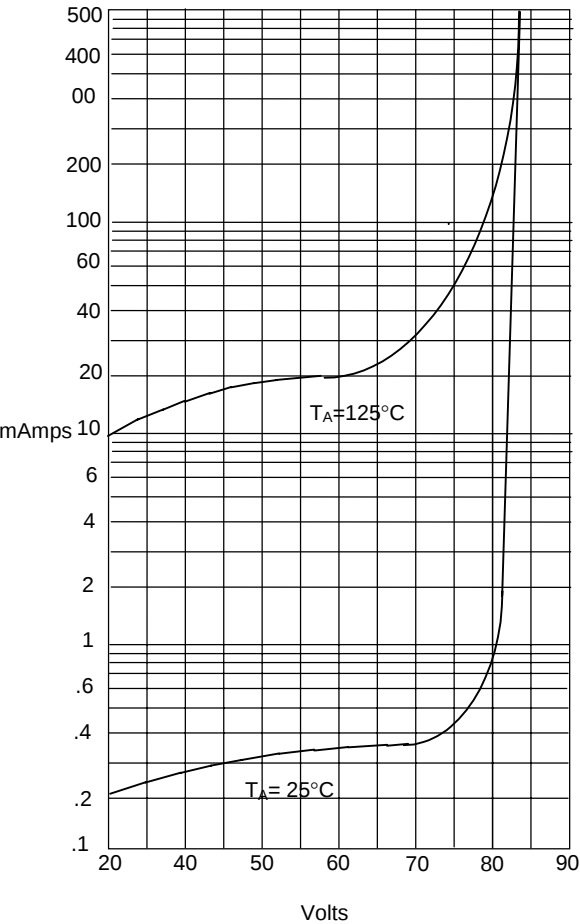
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 3
Junction Capacitance



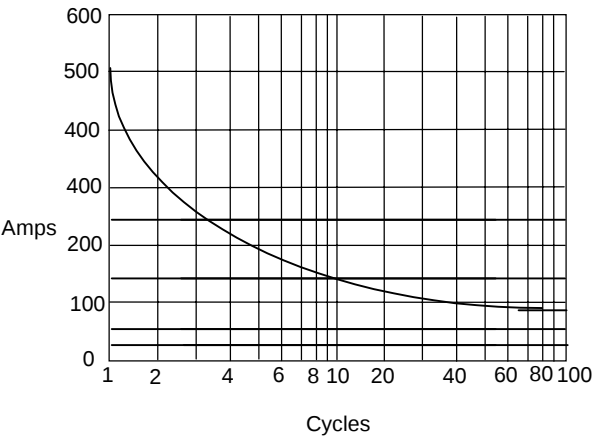
Junction Capacitance - pF versus
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles