



SCHOTTKY DIODES STUD TYPE 15A

Features

High Surge Capability

Types up to 40V V_{RRM}

**15Amp Rectifier
20-40 Volts**

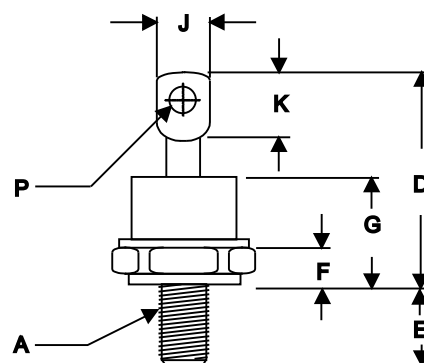
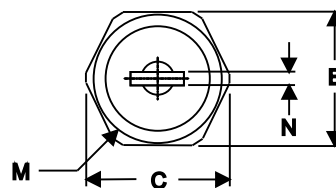
Maximum Ratings

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

Storage Temperature: -65 °C to +175 °C

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

DO-5



Notes:

- 1.Standard Polarity:Stud is Cathode
- 2.Reverse Polarity:Stud is Anode

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15A	$T_c = 100\text{ }^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	500A	8.3ms , half sine
Maximum Instantaneous Forward Voltage NOTE (1)	V_F	0.44V 0.47V 0.50V	(1N5826) (1N5827) (1N5828) $I_{FM} = 15\text{ A} ; T_J = 25\text{ }^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage NOTE (1)	I_R	10 mA 250 mA	$T_J = 25\text{ }^{\circ}\text{C}$ $T_J = 125\text{ }^{\circ}\text{C}$
Maximum Thermal Resistance,Junction To Case	$R_{\theta jc}$	1.8°C/W	

DIMENSIONS					
DIM	INCHES		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	----	1.020	----	25.91	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	----	.460	----	11.68	
H	----	----	----	----	
J	----	.375	----	9.52	
K	.156	----	3.96	----	
M	----	.667	----	16.94	
N	----	.080	----	2.03	
P	.140	.175	3.56	4.45	

NOTE :

(1) Pulse Test: Pulse Width 300 usec,Duty Cycle < 2%

Figure 1
Typical Forward Characteristics

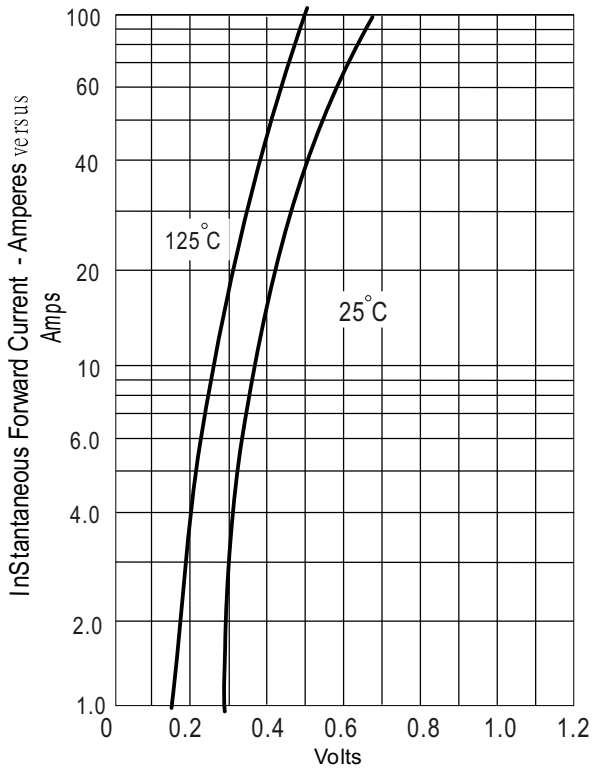
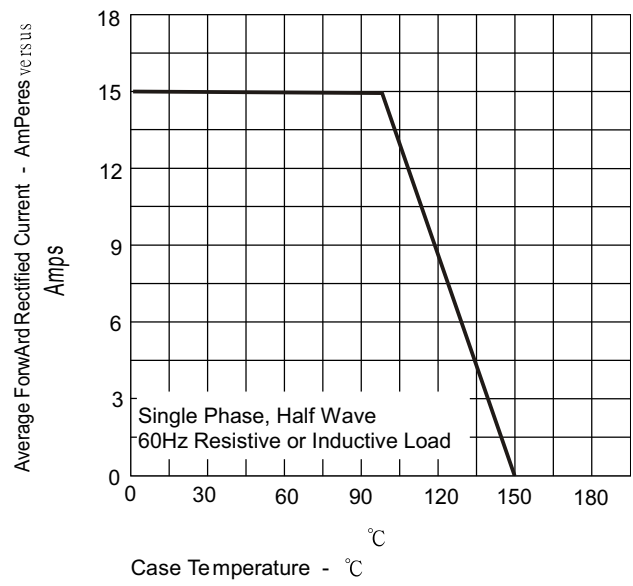


Figure 2
Forward Derating Curve



Instantaneous Forward Voltage - Volts

Figure 3
Peak Forward Surge Current

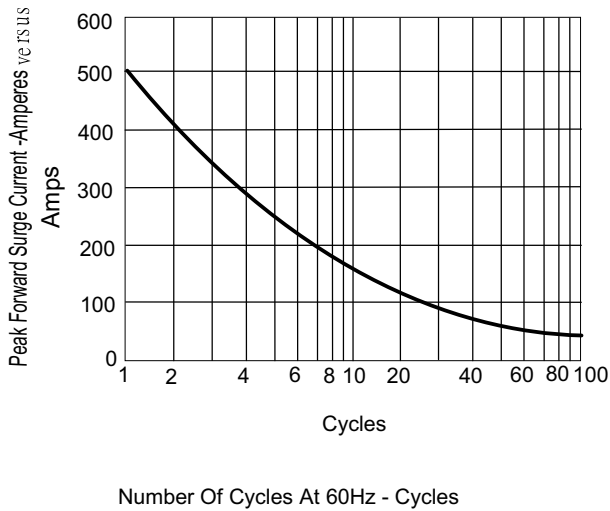


Figure 4
Typical Reverse Characteristics

