DACO SEMICONDUCTOR CO., LTD.

1N3208(R) THRU 1N3214A(R)

STANDARD RECOVERY DIODE STUD TYPES 15A

Features

High Surge Capability
Types Up to 600V V_{RRM}

15 Amp Rectifier
50-600 Volts

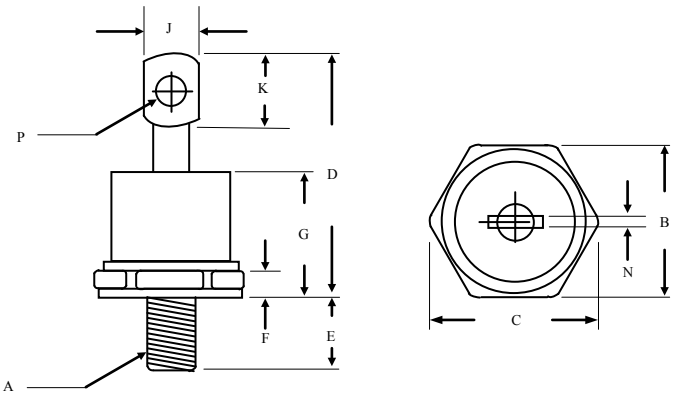
DO-5

Maximum Ratings

Operating Temperature: -55 ℃ to +175 ℃

Storage Temperature: -55 ℃ to +175 ℃

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N3208(R)	50V	35V	50V
1N3209(R)	100V	70V	100V
1N3210(R)	200V	140V	200V
1N3211(R)	300V	212V	300V
1N3212(R)	400V	280V	400V
1N3213(R)	500V	354V	500V
1N3214(R)	600V	420V	600V



Notes:

1.Standard Polarity Stud is Cathod
2.Reverse Polarity: Stud is Anode

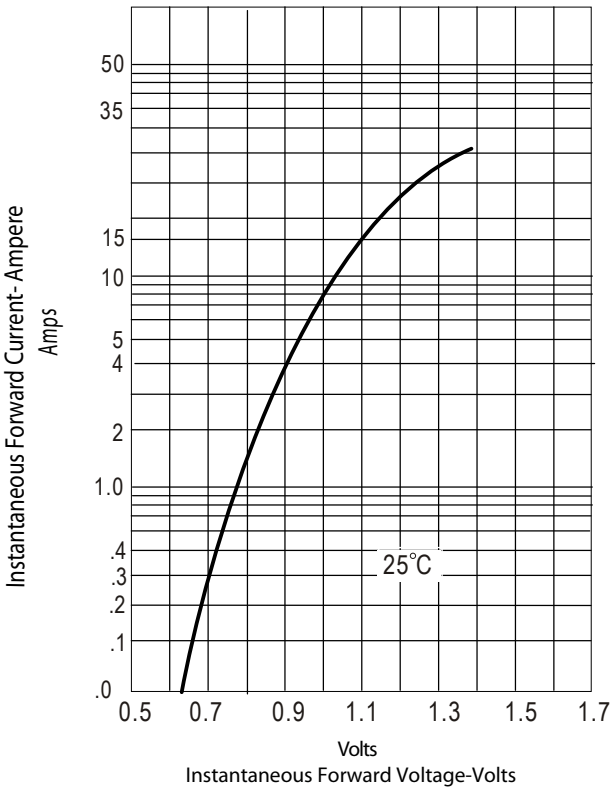
Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	15 A	T_C = 150℃
Peak Forward Surge Current	I_{FSM}	297A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	V_F	1.1V	I_{FM} = 15A T_J = 25 ℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	10μA 12 mA	T_J = 25 ℃ T_J = 175 ℃
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	2.23℃/W	
Mounting torque	Inch pounds (in-pb)	30	

DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	1/4 -28 UNF			
B	0.669	0.687	17.19	17.44
C	-----	0.794	-----	20.16
D	-----	1.020	-----	25.91
E	0.422	0.453	10.72	11.50
F	0.115	0.200	2.93	5.08
G	-----	0.460	-----	11.68
J	-----	0.280	-----	7.00
K	0.236	-----	6.00	-----
M	-----	0.589	-----	14.96
N	-----	0.063	-----	1.60
P	0.140	0.175	3.56	4.45

Pulse Test: Pulse Width 300 μ sec. Duty Cycle < 2%

Figure.1-Typical Forward Characteristics



Figur.2-Forward Derating Curve

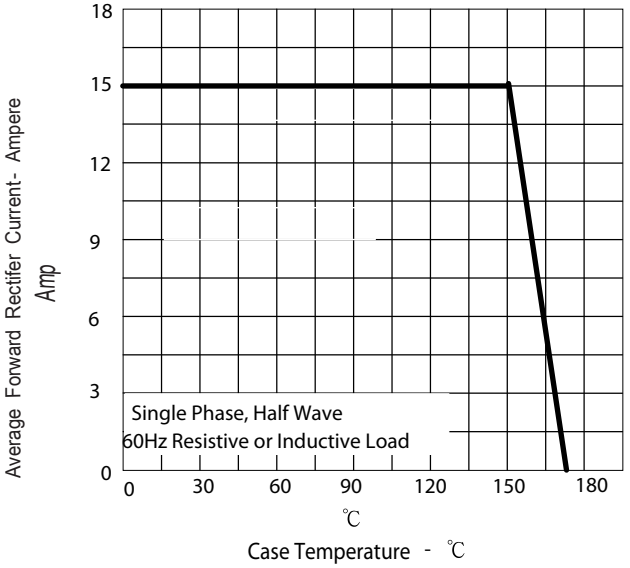


Figure.3-Peak Forward Surge Current

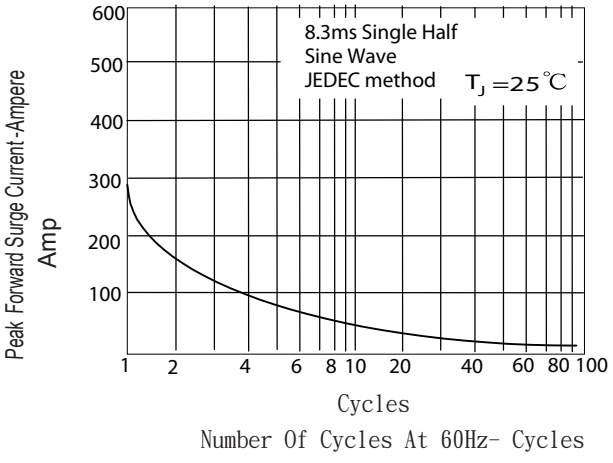


Figure.4- Typical Reverse Characteristics