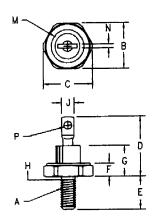
20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922

(212) 227-6005

FAX: (973) 376-8960

Silicon Power Rectifier 1N1614-1N1616, 1N4458-1N4459



Notes:

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

Din	n. Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
Α					1
В	.424	.437	10.77	11.10	
Ç		.505	·	12.83	
Ď		.800		20.32	
E	.422	.453	10.72	11.51	
E	.075	.175	1.91	4.44	
G		.405		10.29	
Н	.163	.189	4.15	4.80	2
J		.250		6.35	
М		.424		10.77	Dia
Ň	.020	.065	.510	1.65	
P	.060		1.52		Dia

DO203AA (DO4)

Num	ber	Peak Reverse Voltage
Standard	Reverse	
1N1614	1N1614R	200V
1N1615	1N1615R	400V
1N1616	1N1616R	600V
1N4458	1N4458R	800V
1N4459	1N4459R	1000V

- Glass passivated die
- Glass to metal seal construction
- VRRM 200 to 1000 volts

Electrical Characteristics

Average forward current

Maximum surge current

Max | 2 t for fusing

Max peak forward voltage

Max peak reverse current

Max peak reverse current

Max Recommended Operating Frequency

IF(AV) 5 Amps

IFSM 100 Amps

IPM 22 t 42 A2's

VFM 1.5 Volts

IRM 50 µA

IRM 500 µA

IRM 500 µA

 $T_C = 150$ °C, half sine wave, $R_{OJC} = 4.5$ °C/W 8.3ms, half sine, $T_C = 150$ °C

|FM = 15A: TJ = 25°C* |VRM, TJ = 25°C |VRM, TJ = 150°C

*Pulse test: Pulse width 300 usec. Duty cycle 2%

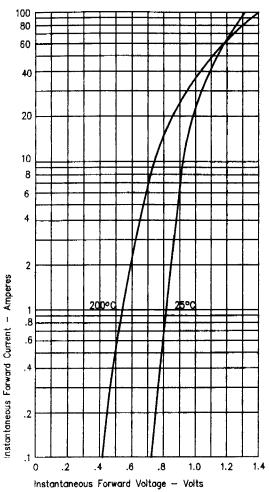
Thermal	and Mechanical	Characteristics
Storage temperature range Operating case temp range Maximum thermal resistance Typical thermal resistance Mounting torque Weight	TSTG TC Rejc Rejc	-65°C to 200°C -65°C to 150°C 4.5°C/W Junction to Case 2.0°C/W Junction to Case 15 inch pounds maximum .16 ounces (5.0 grams) typical

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

1N1614-1N1616, 1N4458-1N4459

Figure 1 Typical Forward Characteristics



Typical Reverse Characteristics

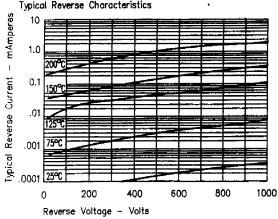


Figure 3
Forward Current Derating

