

High-reliability discrete products and engineering services since 1977

1N1199(A,B)-1N1206(A,B)

SILICON POWER RECTIFIER

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Parameter	Symbol	1N1199	1N1200	1N1201	1N1202	1N1203	1N1204	1N1205	1N1206
Peak reverse voltage	V _R	50V	100V	150V	200V	300V	400V	500V	600V
Operating & storage temperature range	T _J , T _{stg}	-65 to +200°C							
Maximum thermal resistance	$R_{\theta JC}$	2.5°C/W junction to case							
Mounting torque		25-30 inch pounds							
Weight		.16 ounces (5.0 grams) typical							

Add "R" to part numbers for reverse polarity.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol Value		Test Condition		
Average forward current	I _{F(AV)}	12 Amps	T _C = 170°C, half-sine wave, R _{OJC} = 2.5°C/W		
Maximum surge current	I _{FSM}	250 Amps	8.3ms, half-sine, T _J = 200°C		
Maximum I ² t for fusing	I ² t	260 A ² s			
Maximum peak forward voltage	V _{FM}	1.2 Volts	I _{FM} = 30A: T _J = 25°C*		
Maximum peak reverse current	I _{RM}	10 μΑ	V _{RRM} , T _J = 25°C		
Maximum peak reverse current	I _{RM}	1.0 mA	V _{RRM} , T _J = 150°C*		
Maximum recommended operating frequency		10 kHz			

[•] Pulse test: pulse width 300μsec. Duty cycle 2%



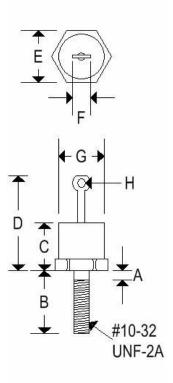
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MECHANICAL CHARACTERISTICS

Case	DO-4(R)		
Marking	Alpha-numeric		
Normal polarity	Cathode is stud		
Reverse polarity	Anode is stud (add "R" suffix)		



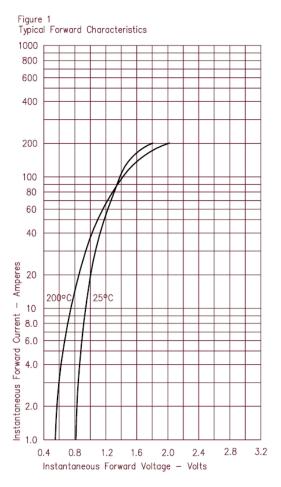
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	DO-4(R)						
	Inc	hes	Millimeters				
	Min	Max	Min	Max			
Α	-	0.078	-	1.981			
В	0.422	0.453	10.719	11.506			
С	-	0.405	-	10.287			
D	-	0.800	-	20.320			
Е	0.420	0.440	10.668	11.176			
F	-	0.250	-	6.350			
G	-	0.424	-	10.770			
Н	0.066	-	1.676	-			



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Typical Reverse Characteristics 10 – mA 1.0 Reverse Current 0.1 .01 150% .001 Typical .0001 300 600 1200 0 900 Reverse Voltage - Volts

