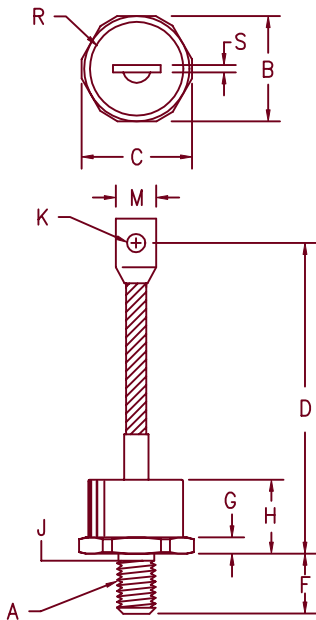


Military Silicon Power Rectifier 1N3289-1N3295



Notes:

- 3/8-24 UNF-3A
- Full threads within 2 1/2 threads
- Standard polarity: Stud is Cathode
Reverse polarity: Stud is Anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1,3
B	1.050	1.060	26.67	26.92	
C	---	1.166	---	29.61	
D	4.30	4.65	109.22	118.11	
F	.610	.640	15.49	16.25	
G	.213	.233	5.41	5.66	
H	---	.745	---	18.92	
J	.344	.373	8.74	9.47	2
K	.276	.286	7.01	7.26	
M	.465	.670	11.81	17.02	
R	.625	.850	15.88	21.59	Dia
S	.050	.120	1.27	3.05	

DO205AA (D08)

- Available in JAN, JANTX and JANTXV
- MIL-PRF-19500/246
- Glass Passivated Die
- 1600 Amps Surge Rating
- Glass to metal seal construction
- VRRM to 1000V

Microsemi Catalog Number Standard

1N3289
1N3291
1N3293
1N3294
1N3295

Reverse

1N3289R
1N3291R
1N3293R
1N3294R
1N3295R

Peak Reverse Voltage

200V
400V
600V
800V
1000V

Electrical Characteristics

Average forward current	$I_F(AV)$ 100 Amps	$T_C = 134^\circ C$, Half Sine Wave, $R_{\theta JC} = 0.4^\circ C/W$
Maximum surge current	I_{FSM} 1600 Amps	8.3ms, half sine, $T_J = 200^\circ C$
Max $I^2 t$ for fusing	$I^2 t$ 10700 $A^2 s$	
Max peak forward voltage	V_{FM} 1.55 Volts	$I_{FM} = 310A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 10 mA	V_{RRM} , $T_J = 25^\circ C$
Max peak reverse current	I_{RM} 30 mA	V_{RRM} , $T_J = 200^\circ C$
Max Recommended Operating Frequency	7.5kHz	

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-65^\circ C$ to $200^\circ C$
Operating junction temp range	T_J	$-65^\circ C$ to $200^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$0.4^\circ C/W$ Junction to Case
Mounting torque		100 inch pounds maximum
Weight		2.75 ounces (78 grams) typical

1-3-01 Rev. 1

MILITARY 1N3289-1N3295

Figure 1
Typical Forward Characteristics

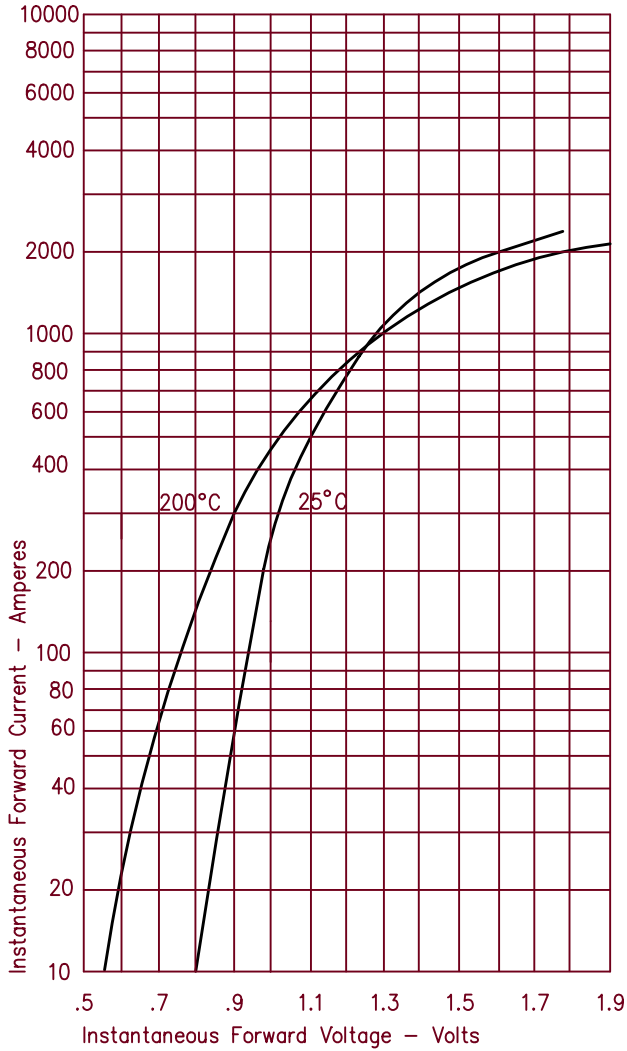


Figure 3
Forward Current Derating

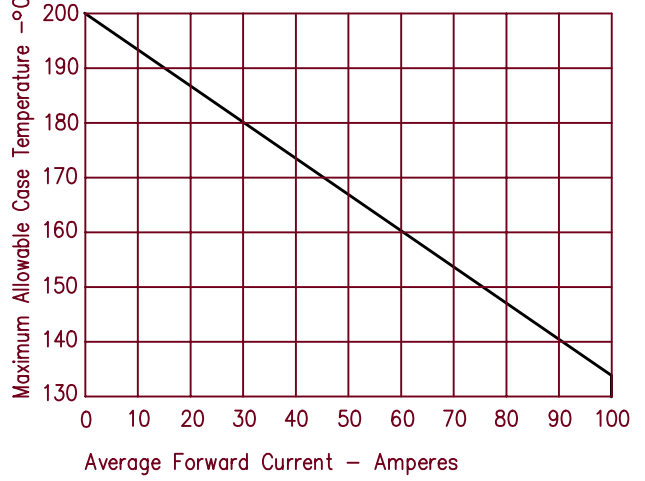


Figure 5
Transient Thermal Impedance

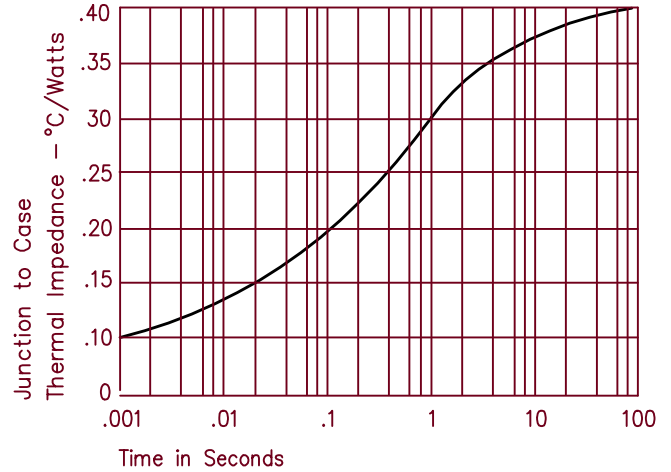


Figure 2
Typical Reverse Characteristics

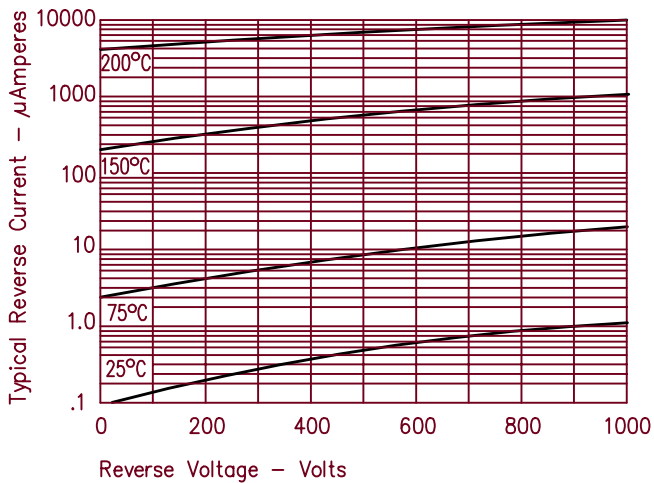


Figure 7
Maximum Nonrepetitive Surge Current

