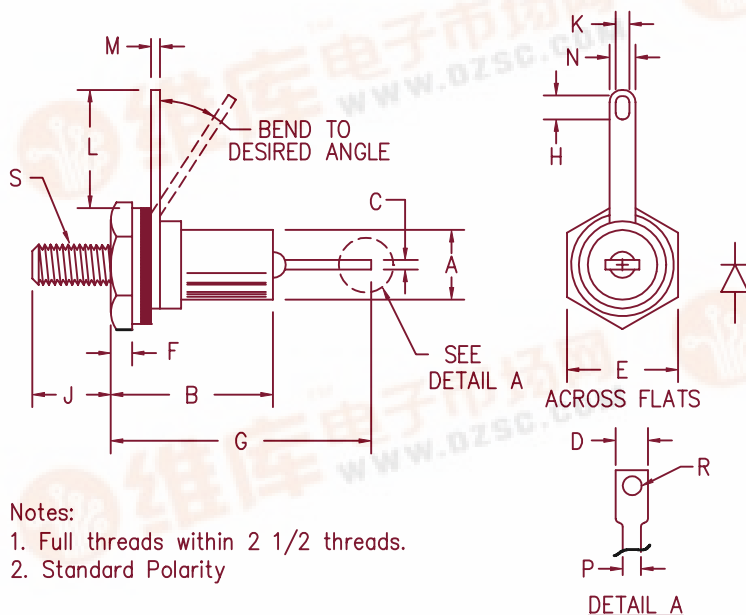


Military Silicon Power Rectifier

99016 — 1N2153

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Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	.424	---	---	
B	.400	---	---	---	
C	---	.035	---	---	
D	---	.150	---	---	
F	.062	.150	---	---	
G	.800	1.00	---	---	
H	.110	.140	---	---	
J	.422	.453	---	---	
K	.045	.075	---	---	
L	.530	.600	---	---	
M	.022	.038	---	---	
N	.110	.140	---	---	
R	.060	---	---	---	
S	10-32 NF-2A		---	---	Dia. 1

Microsemi Catalog Number	Repetitive Peak Reverse Voltage	Transient Peak Reverse Voltage
99016-1N2153	600	600

- MIL-DWG-99016 JAN Equivalent
- Glass Passivated Die
- Glass to metal construction
- Isolated mounting base
- V_{RRM} 600 Volts

Electrical Characteristics

Average forward current	$I_F(AV)$ 6 Amps	$T_C = 100^\circ C$, Half sine wave, $R_{\theta JC} = 3.0^\circ C/W$
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, $T_J = 100^\circ C$
Max. peak forward voltage	V_{FM} 1.5 Volts	$I_{FM} = 6A$; $T_C = 25^\circ C$
Max. peak reverse current per leg	I_{RRM} 50 μA	V_{RRM} , $T_C = 25^\circ C$
Max. peak reverse current per leg	I_{RRM} 1.0 mA	V_{RRM} , $T_C = 150^\circ C$

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-65^\circ C$ to $150^\circ C$
Operating junction temp range	T_J	$-65^\circ C$ to $150^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$3.0^\circ C/W$ Junction to case
Mounting torque		15 inch pounds maximum (10-32NF screw)
Weight		.3 ounces (8.2 grams) typical

9-26-00 Rev. IR



COLORADO

Microsemi

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Broomfield, CO. 80020
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FAX: (303) 466-3775
www.microsemi.com

99016 – 1N2153

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Figure 1
Typical Forward Characteristics – Per Leg

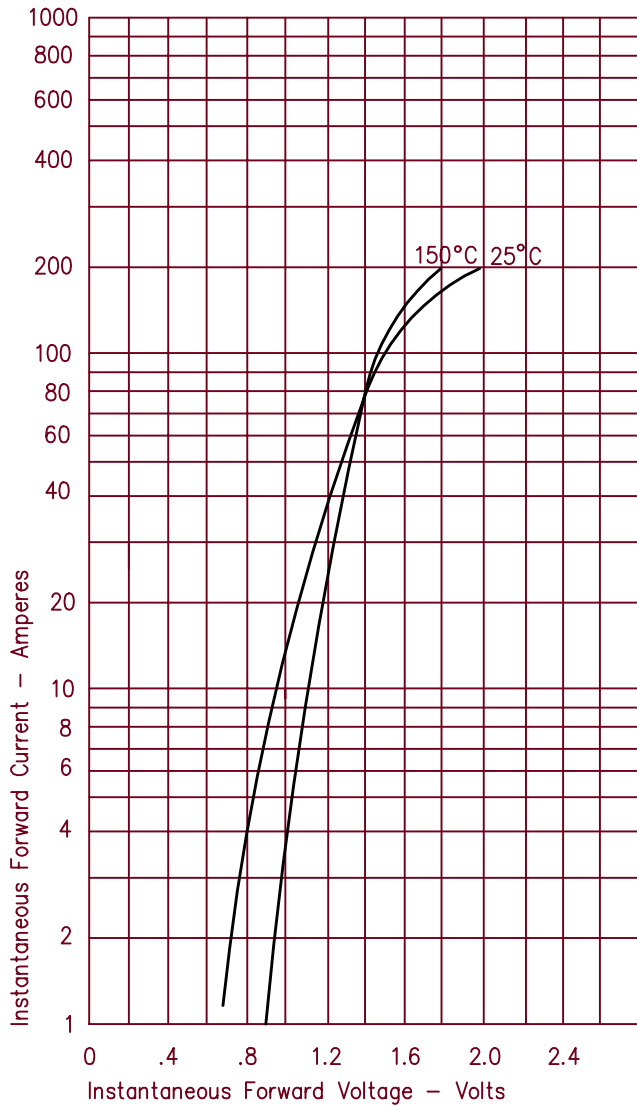


Figure 2
Typical Reverse Characteristics

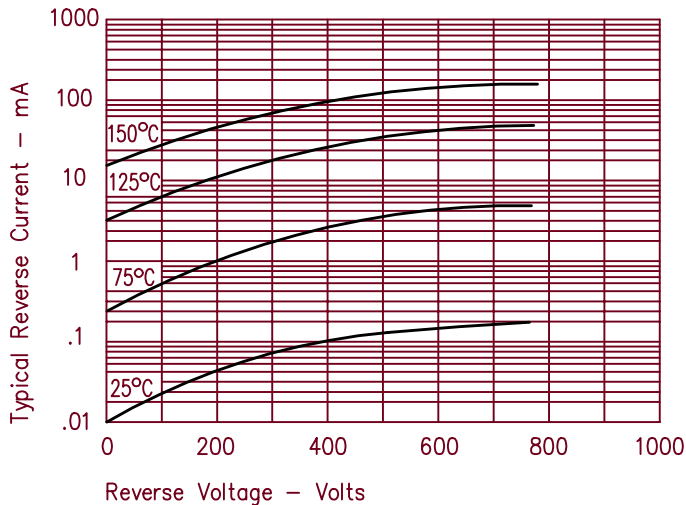


Figure 3
Forward Current Derating – Per Leg

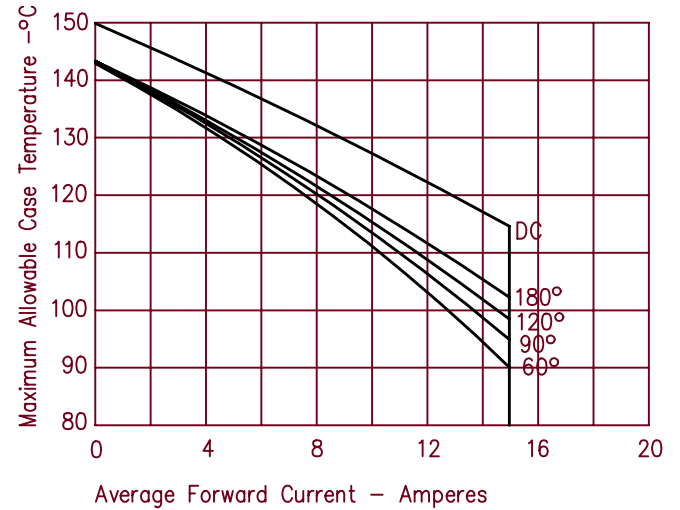


Figure 4
Maximum Forward Power Dissipation – Per Leg

