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[捷多邦, 专业PCB打样工厂, 24小时加急出货](#)

- AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/118
- GENERAL PURPOSE SILICON DIODES
- METALLURGICALLY BONDED

1N5194  
1N5195  
1N5196

### MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C  
Storage Temperature: -65°C to +175°C  
Operating Current: 200 mA  
Derating: 1.2 mA/°C From 25°C to 150°C  
1.0 mA/°C From 150°C to 175°C  
Forward Current: 650 mA

### ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE	$V_{RM}$	$V_{RWM}$	$I_O$	$I_O$	$I_{FSM}$
	V (pk)	V (pk)	mA	mA	A
1N5194	80	70	200	50	2
1N5195	180	180	200	50	2
1N5196	250	225	200	50	2

TYPE	$V_F$ @100mA	$I_{R1}$ at $V_{RWM}$ $T_A = 25^\circ C$	$I_{R2}$ at $V_{RM}$ $T_A = 25^\circ C$	$I_{R3}$ at $V_{RWM}$ $T_A = 150^\circ C$
	V dc	nA dc	$\mu A$	$\mu A$ dc
1N5194	0.8 - 1.0	25	100	5
1N5195	0.8 - 1.0	25	100	5
1N5196	0.8 - 1.0	25	100	5

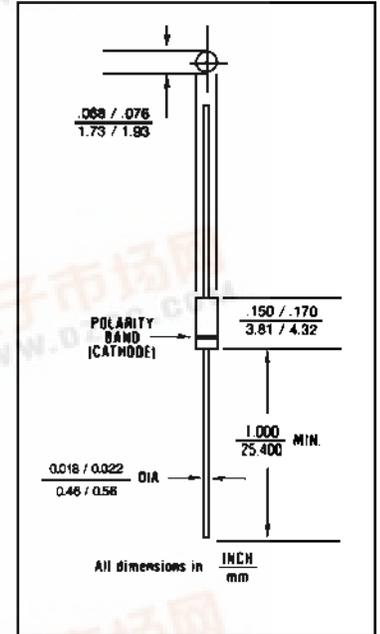


FIGURE 1

### DESIGN DATA

**CASE:** Hermetically sealed glass case. DO - 35 outline.

**LEAD MATERIAL:** Copper clad steel.

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ( $R_{\theta JEC}$ ): 250 °C/W maximum

**THERMAL IMPEDANCE:** ( $Z_{\theta JX}$ ): 70 °C/W maximum

**POLARITY:** Cathode end is banded.

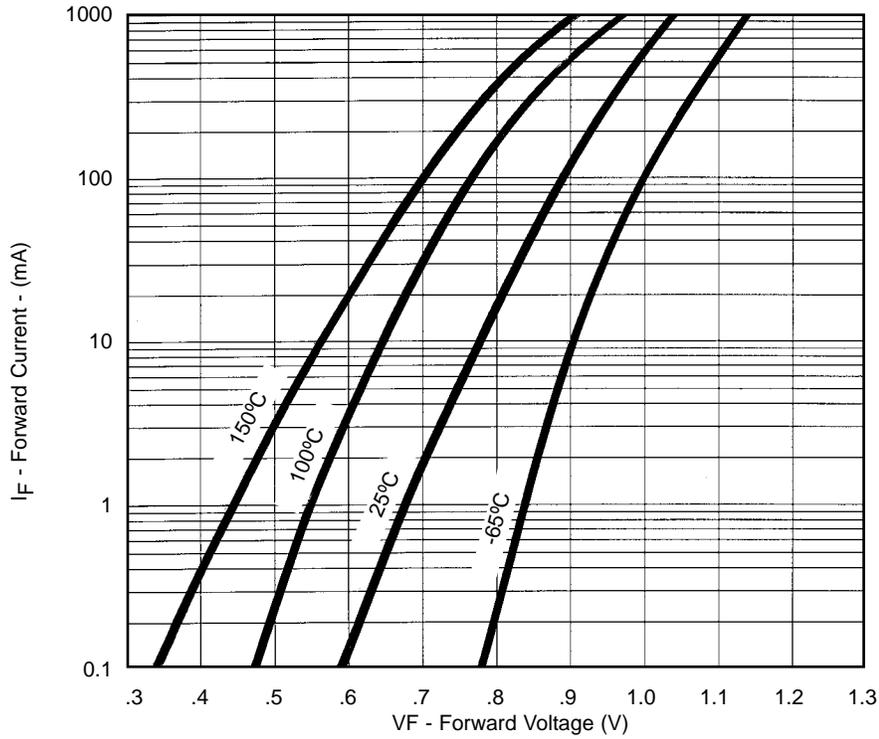
**MOUNTING POSITION:** ANY.



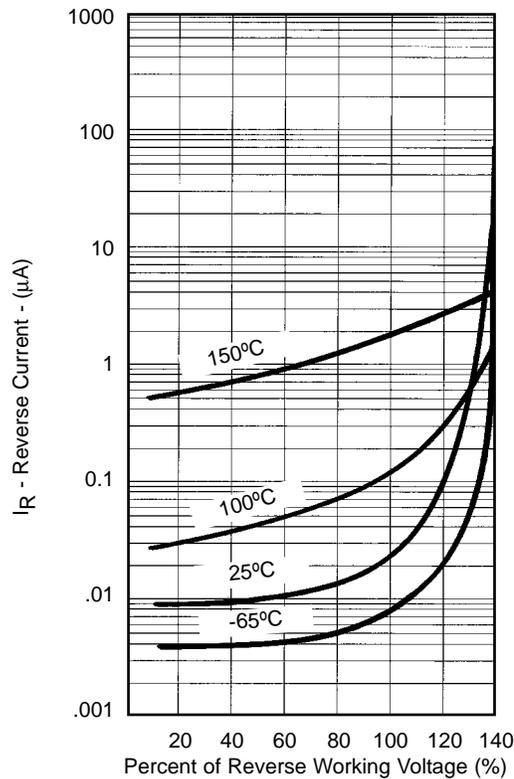
**COMPENSATED DEVICES INCORPORATED**

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# IN5194 thru IN5196



**FIGURE 2**  
Typical Forward Current  
vs Forward Voltage



**NOTE :** All temperatures shown on graphs are junction temperatures

**FIGURE 3**  
Typical Reverse Current