• 1N4153 and 1N4153-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/337

- SWITCHING DIODES
- HERMETICALLY SEALED
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

1N4153 and 1N4153-1

MAXIMUM RATINGS

Junction Temperature: -85°C to +175°C Storage Temperature: -65°C to +175°C Operating Current: 150 mA @ T_A = +25°C Derating: 1.0 mA dd/°C Above T_A = +25°C

Forward Surge Current: 2A (pk), (tp = 1µs); 0.25A (pk), (tp = 1s)

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

Туре	V _{BR}	V _{RWM}	I _{R1}	1 _{R2}	С	t _{rr}
			V _R = 50 V dc	V _R = 50 V dc	V _R = 0; f = 1 Mhz;	I _F = I _R = 10 mAdc
	I _R = 5 μA		T _A = 25℃	T _A = 150°C		R _L = 100 ohms
	V dc	V (pk)	nA dc	μA dc	pF	ns
1N4153-1	75	50	50	50	2.0	4

FORWARD VOLTAGE LIMITS - ALL TYPES

	V _{F1}	V F2	ν _{F3}	۷ _{F4}	۷ _{F5}	V F6
Limits	I _F = 100 μA dc	I _F = 250 μA dc	I _F =1 mAdc	I _F = 2 mA dc	I _F = 10 mAdc	1 _F = 20 mA dc
	V dc	V dc	V dc	V dc	V dc	V dc
minimum	0.49	0.53	0.59	0.62	0.70	0.74
maximum	0.55	0.59	0.67	0.70	0.81	88.0

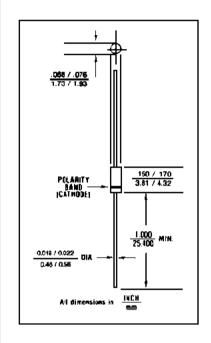


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/337 D0-35 outline

LEAD MATERIAL: Copper clad steel.

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: (R_{QJL}): 250 °C/W maximum at L = .375

THERMAL IMPEDANCE: (Z_QJX): 70

*C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any.



IN4153 and IN4153-1

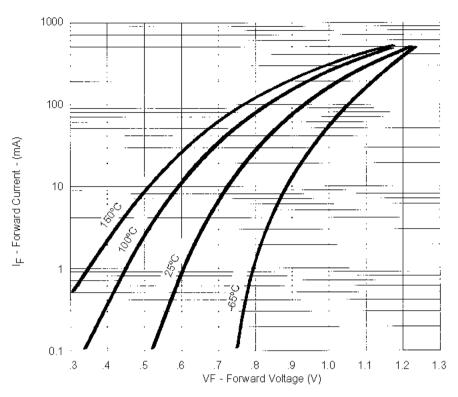


FIGURE 2
Typical Forward Current
vs Forward Voltage

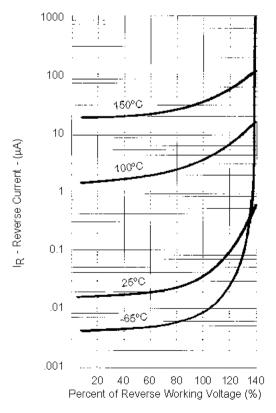


FIGURE 3
Typical Reverse Current
vs Reverse Voltage

NOTE: All temperatures shown on graphs are junction temperatures

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