- 1N6639 thru 1N6641AVAILABLE IN JAN, JANTX, JANTXV, AND JANS PER MIL-PRF-19500/609
- SWITCHING DIODES
- NON-CAVITY GLASS PACKAGE
- METALLURGICALLY BONDED

1N6639

1N6640

1N6641

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
Operating Current: 300 mA
Derating: 3 mA/°C Above T_L = +75°C@ = L = $^3/_8$"
Surge Current: I_{FSM} = 2.5A, Pw = 8.3ms

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

TYPES	V_{BRR} @ 10 µA	V_{RWM}	I_{R1} @ T_A = +25°C V_R = V_{RWM}	I_{R2} @ T_A = +150°C V_R = V_{RWM}	T_{FR} I_F = 200 mA	T_{RR}	C_T V_R = 0
	$V_{(PK)}$ MIN	$V_{(PK)}$	nA dc	µA dc	ns	ns	pF
1N6639	100	75	100	100	10	4.0	2.5
1N6640	75	50	100	100	10	4.0	2.5
1N6641	75	50	100	100	10	5.0	3.0

FORWARD VOLTAGE:

TYPES	V_F @ I_F		
	V dC		mA
	MIN	MAX	(PULSED)
1N6639	–	1.20	500
1N6640	0.54	0.62	1
	0.76	0.86	50
	0.82	0.92	100
	0.87	1.00	200
1N6641	–	1.10	200

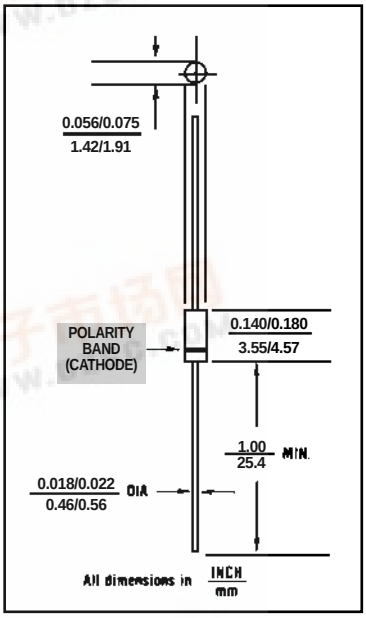


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed, "D" Body per MIL-PRF- 19500/609. D-5D

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JL}$): 160 °C/W maximum at L = .375

THERMAL IMPEDANCE: ($Z_{\Theta JX}$): 25 °C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any

COMPENSATED DEVICES INCORPORATED
22 COREY STREET, MELROSE, MASSACHUSETTS 02176
PHONE (781) 665-1071 FAX (781) 665-7379

IN6639 thru IN6641

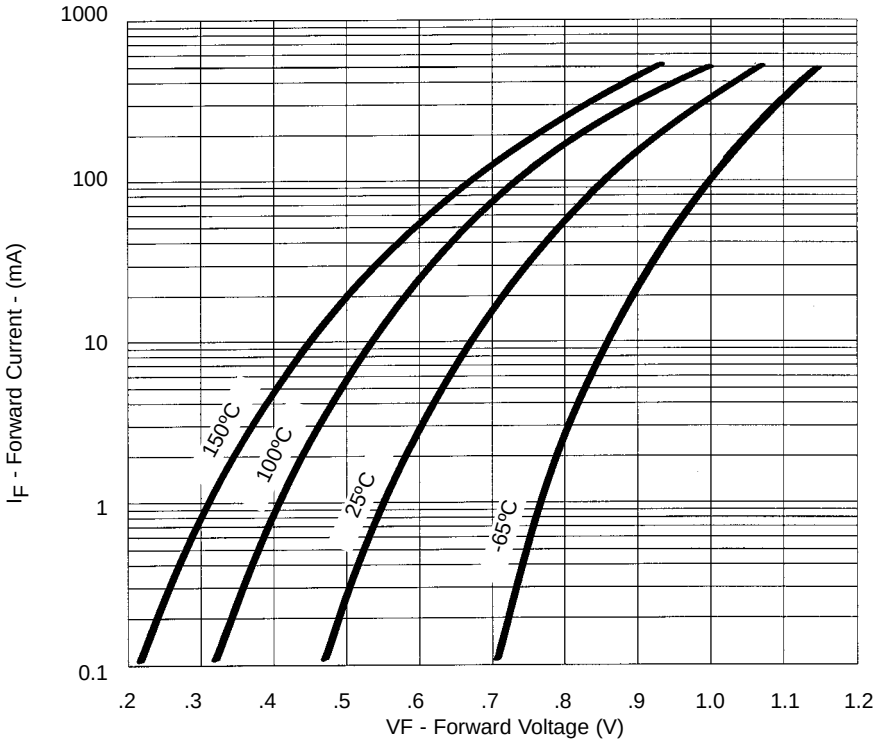
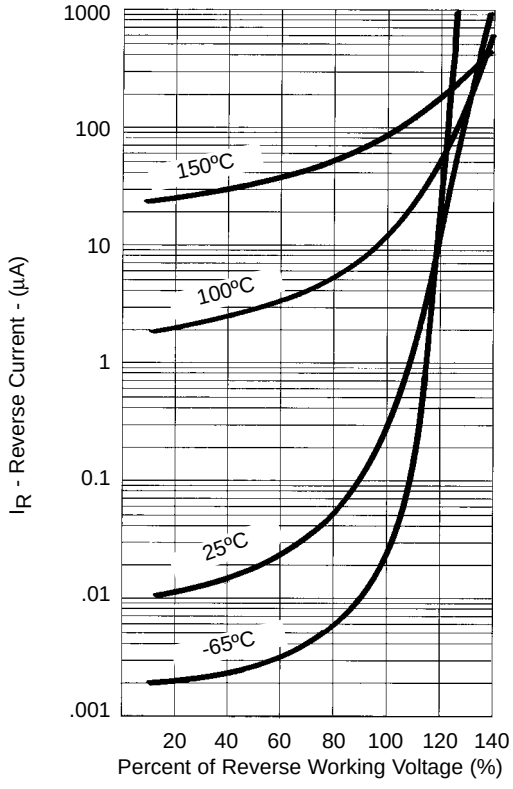


FIGURE 2
Typical Forward Current
vs Forward Voltage



NOTE : All temperatures shown on graphs are junction temperatures

FIGURE 3
Typical Reverse Current