

ELECTRICAL CHARACTERISTICS @ 25°C

TYPE NUMBER	MINIMUM BREAK-DOWN VOLTAGE V_R $I_R = 50 \mu A$	MAXIMUM FORWARD VOLTAGE $V_F @ I_F$		WORKING PEAK REVERSE VOLTAGE V_{RWM}	MAXIMUM REVERSE CURRENT $I_R @ V_{RWM}$		MAXIMUM REVERSE RECOVERY TIME (LOW CURRENT) t_{rr} Note 1	MAXIMUM REVERSE RECOVERY TIME (HIGH CURRENT) t_{rr} Note 2	PEAK RECOVERY CURRENT $I_{RM} (rec)$ $I_F = 2 A$, $100 A/\mu s$ Note 2	FORWARD RECOVERY VOLTAGE $V_{FRM} Max$ $I_F = 0.5 A$ $t_r = 12 ns$
					$T_A = 25^\circ C$	$T_A = 150^\circ C$				
	V	V @ A	V @ A	V	μA	μA	ns	ns	A	V
1N6626	220	1.35V @ 2.0 A	1.50V @ 4.0A	200	2.0	500	30	45	3.5	8
1N6627	440	1.35V @ 2.0 A	1.50V @ 4.0A	400	2.0	500	30	45	3.5	8
1N6628	660	1.35V @ 2.0 A	1.50V @ 4.0A	600	2.0	500	30	45	3.5	8
1N6629	880	1.40V @ 1.4 A	1.70V @ 3.0A	800	2.0	500	50	60	4.2	12
1N6630	990	1.40V @ 1.4 A	1.70V @ 3.0A	900	2.0	500	50	60	4.2	12
1N6631	1100	1.60V @ 1.4 A	1.95V @ 2.0A	1000	4.0	600	60	80	5.0	20

NOTE 1: Low Current Reverse Recovery Time Test Conditions: $I_F = 0.5A$, $I_{RM} = 1.0A$, $I_{R(REC)} = 0.25A$ per MIL-STD-750, Method 4031, Condition B.

NOTE 2: High Current Reverse Recovery Time Test Conditions: $I_F = 2 A$, $100 A/\mu s$ MIL-STD-750, Method 4031, Condition D.

SYMBOLS & DEFINITIONS

Symbol	Definition
V_{BR}	Minimum Breakdown Voltage: The minimum voltage the device will exhibit at a specified current.
V_{RWM}	Working Peak Reverse Voltage: The maximum peak voltage that can be applied over the operating temperature range.
V_F	Maximum Forward Voltage: The maximum forward voltage the device will exhibit at a specified current.
I_R	Maximum Reverse Current: The maximum reverse (leakage) current that will flow at the specified voltage and temperature.
C	Capacitance: The capacitance in pF at a frequency of 1 MHz and specified voltage.
t_{rr}	Reverse Recovery Time: The time interval between the instant the current passes through zero when changing from the forward direction to the reverse direction and a specified recovery decay point after a peak reverse current is reached.

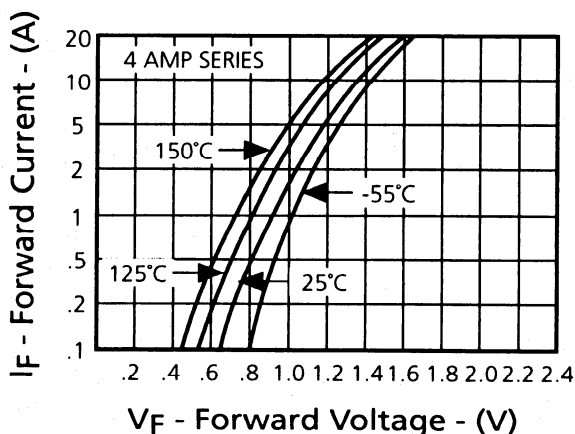
CHARTS AND GRAPHS


FIGURE 1
Typical Forward Current
vs
Forward Voltage

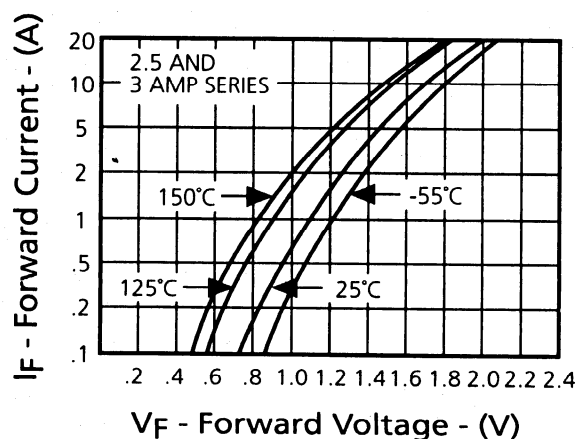


FIGURE 2
Typical Forward Current
vs
Forward Voltage

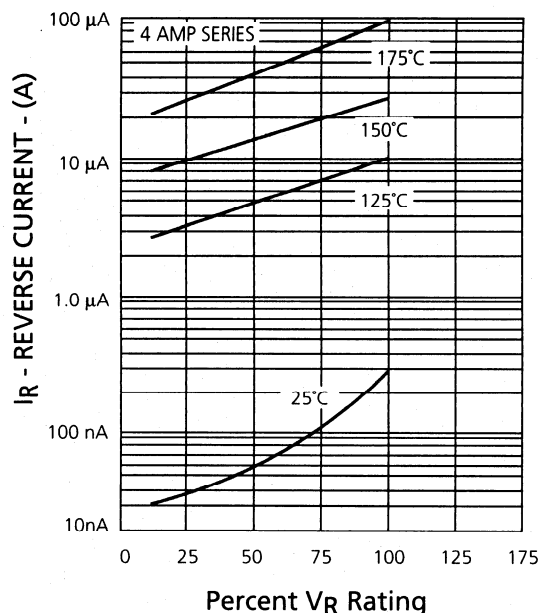


FIGURE 3
Typical Reverse Current vs.
Applied Reverse Voltage

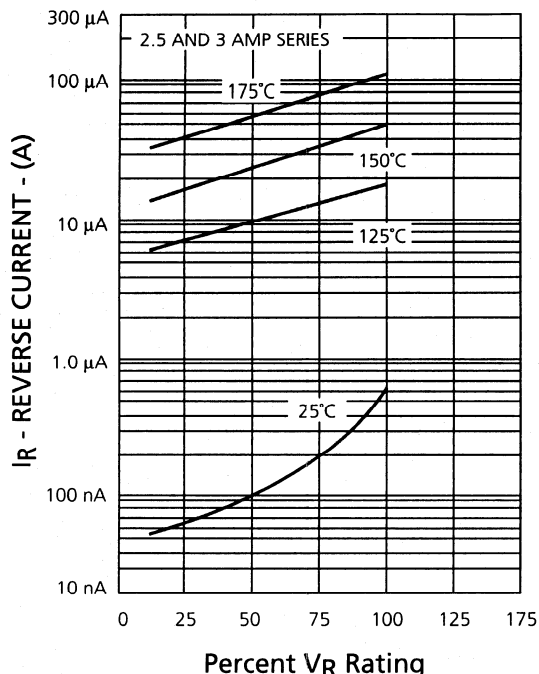


FIGURE 4
Typical Reverse Current vs.
Applied Reverse Voltage

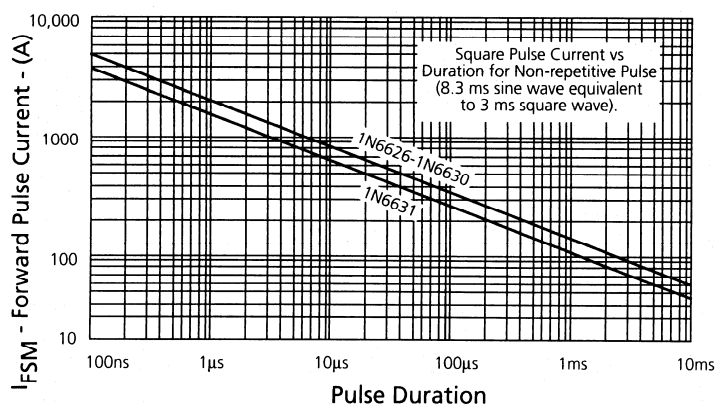


FIGURE 5
Forward Pulse Current vs.
Pulse Duration

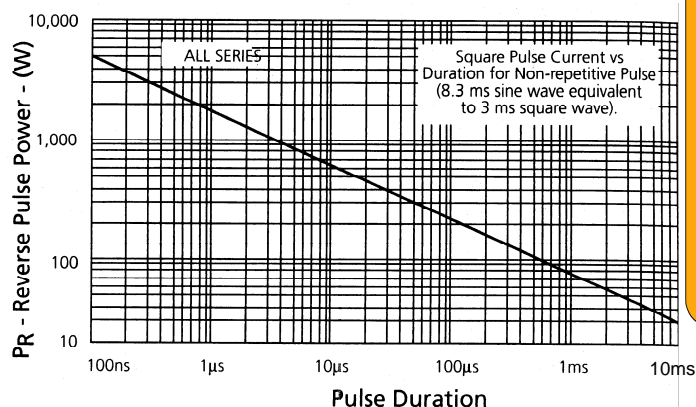
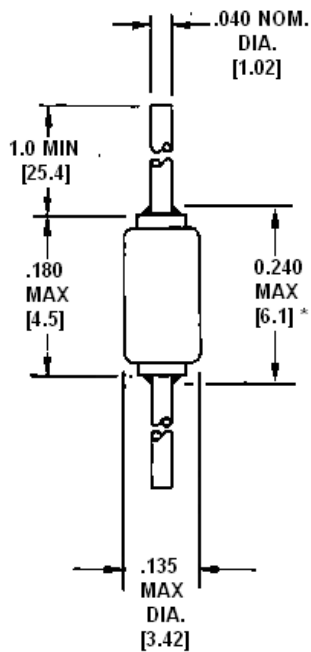


FIGURE 6
Reverse Pulse Power vs.
Pulse Duration

PACKAGE DIMENSIONS



Lead Tolerance = + .002 -.003 in

*Includes sections of the lead or fillet over which the lead diameter is uncontrolled.