DIGITRON SEMICONDUCTORS

1N5400-1N5408 GENERAL PURPOSE RECTIFIERS

MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value – 1N									Unit
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
V_{RRM}	Maximum repetitive reverse voltage	50	100	200	300	400	500	600	800	1000	V
$I_{F(AV)}$	Average rectified forward current, .375" lead length @ T_A = 75°C	3.0									A
I_{FSM}	Non-repetitive peak forward surge current 8.3ms single half-sine wave	200									A
T_{stg}	Storage temperature range	-55 to +150									°C
T_J	Operating junction temperature	-55 to +150									°C

THERMAL CHARACTERISTICS

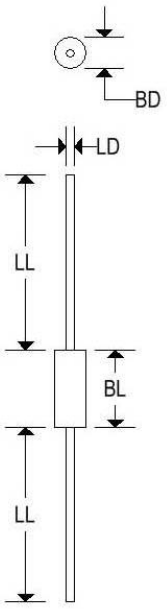
P_D	Power dissipation	6.25	W
$R_{\theta JA}$	Thermal resistance, junction to ambient	20	°C/W

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

V_F	Forward voltage @ 3.0A	1.2	V
I_{rr}	Maximum full load reverse current, full cycle T_A = 105°C	0.5	mA
I_R	Reverse current @ rated V_R T_A = 25°C T_A = 100°C	5.0 500	µA
C_T	Total capacitance V_R = 4.0V, f = 1.0 MHz	30	pF

MECHANICAL CHARACTERISTICS

Case	DO-201A
Marking	Body painted, alpha numeric
Polarity	Cathode band



	DO-201A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.190	0.260	4.826	6.604
BL	0.285	0.375	7.240	9.530
LD	0.048	0.052	1.219	1.321
LL	1.000	-	25.400	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

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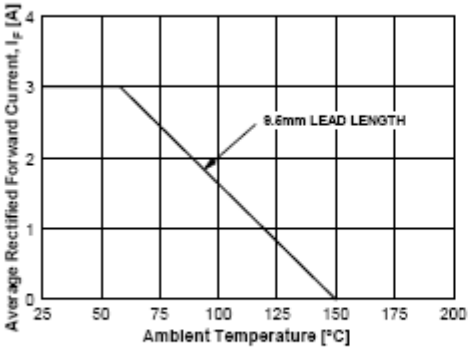

Figure 1. Forward Current Derating Curve

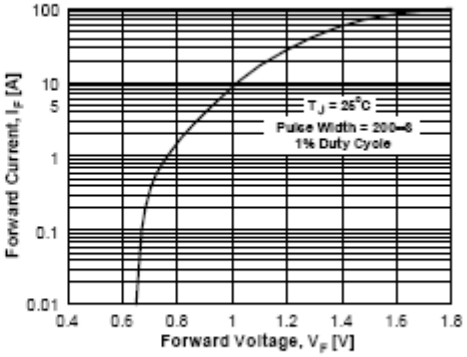

Figure 2. Forward Voltage Characteristics

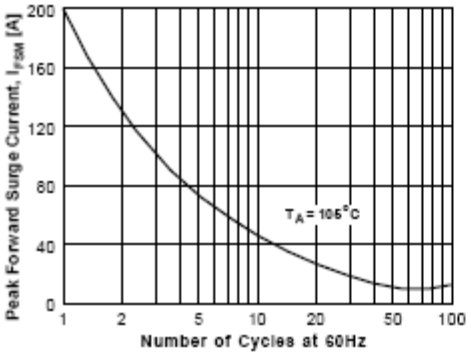

Figure 3. Non-Repetitive Surge Current

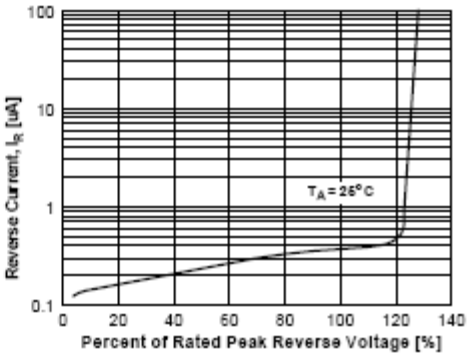

Figure 4. Reverse Current vs Reverse Voltage

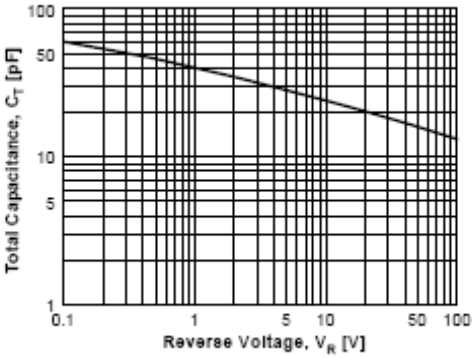

Figure 5. Total Capacitance

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