DIGITRON™ Semiconductors

High-reliability discrete products
and engineering services since 1977

1N3062-1N3064

SWITCHING RECTFIERS

FEATURES

- Available as “HR” (high reliability) screened per MIL-PRF-19500, JANTX level. Add “HR” suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding “-PBF” suffix.

MAXIMUM RATINGS

Characteristics	Symbol	1N3062	1N3063	1N3064	Unit
Working peak reverse voltage	V_{RWM}	50			V
Repetitive peak reverse voltage	V_{RRM}	75			V
Average forward current	I_O	75			mA
Forward steady-state current	I_F	115			mA
Peak forward current (recurrent)	I_{FM}	225			mA
Peak forward surge current (1.0µs)	I_{FSM}	2000			mA
Power dissipation	P_D	250			mW
Operating and storage junction temperature range	T_J, T_{stg}	-65 to +200			°C

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

Characteristics	Symbol	Test Conditions	Min	Max	Unit
Reverse current	I_R	V_R = 50V	-	0.1	µA
Reverse current	I_R	V_R = 50V, T_A = 150°C	-	100	µA
Breakdown voltage	V_{BR}	I_R = 5.0µA	75	-	V
Forward voltage	V_F	I_F = 250µA I_F = 1.0mA I_F = 2.0mA I_F = 10mA (1N3064) I_F = 10mA (1N3063) I_F = 20mA (1N3062)	0.505 0.55 0.61 - 0.7 -	0.575 0.65 0.71 1.0 0.85 1.0	V
Capacitance	C_T	V_R = 0V, f = 1.0MHz (1N3062) V_R = 0V, f = 1.0MHz (1N3063, 1N3064)	- -	1.0 2.0	pF
Reverse recovery time	t_{rr}	V_R = 6.0V, I_F = 10mA, R_L = 100Ω (1N3062) V_R = 1.0V, I_F = 10mA, R_L = 100Ω (1N3063, 1N3064)	- -	2.0 4.0	ns

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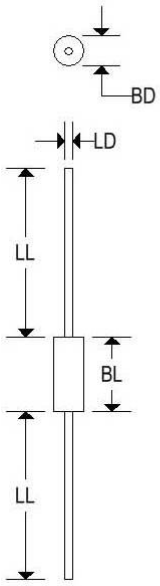
MECHANICAL CHARACTERISTICS

Case	DO-35
Marking	Body painted, alpha numeric
Normal polarity	Cathode band



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100