

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	lo	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)

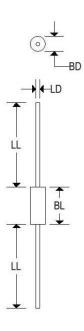
Characteristics	Symbol	Test Conditions	Min	Max	Unit	
Reverse current	I _R	V _R = 50V	-	0.1	μΑ	
Reverse current	I _R	V _R = 50V, T _A = 150°C		100	μΑ	
Breakdown voltage	V _{BR}	$I_R = 5.0 \mu A$	75	-	V	
Forward voltage		I _F = 250μA	0.505	0.575		
		I _F = 1.0mA	0.55	0.65		
		I _F = 2.0mA	0.61	0.71	V	
	V_{F}	$I_F = 10 \text{mA} (1 \text{N} 3064)$	-	1.0		
		$I_F = 10 \text{mA} (1 \text{N} 3063)$ 0.7		0.85		
		I _F = 20mA (1N3062)	-	1.0		
Capacitance		V _R = 0V, f = 1.0MHz (1N3062)		1.0	5	
	Ст	V _R = 0V, f = 1.0MHz (1N3063, 1N3064)	-	2.0	pF	
Reverse recovery time		$V_R = 6.0V$, $I_F = 10mA$, $R_L = 100\Omega$ (1N3062)		2.0		
	t _{rr}	$V_R = 1.0V$, $I_F = 10$ mA, $R_L = 100\Omega$ (1N3063, 1N3064)	-	4.0	ns	



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MECHANICAL CHARACTERISTICS

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



	DO-35				
	Inc	hes	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	

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