

# Technical Data

## DIODE



### maximum ratings

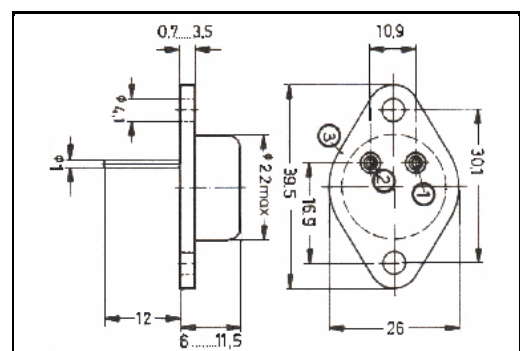
Voltage, Reverse (VZ)	33.0	V	NO.	1N2824B
Voltage, Reverse Peak (VRM)		V	TYPE	50W-ZENER
Current at VR = 0V (IO)		A		
Current Average Rectified (IF)		A		
Current Surge Peak (IZM)	1.3	A	CASE	TO-3
Current, Surge (IFM) at tp =		A		ANODE TO CASE
Max. Power Dissipation (PT) at TC = 75 °C	50.0	W		
Max. Thermal Resistance (Rth J-C)	2.0	°C/W		
Max. Junction Temperature (TJ)	175.0	°C		

### PERFORMANCE CHARACTERISTICS at $T_c = 25^\circ\text{C}$ , unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	VF	IF = 10.0 A (1)	-	1.5	V
2.	VZ	IZ = 380.0 mA, tp = 100.0 μs, dc = 0.1%	31.35	34.65	V
3.	IR	VR = 25.1	-	5.0	μA
4.	RZ	IZ = 380.0 mA, Δ IZ = 10.0% IZ, f = 1.0 kHz	-	3.2	Ω
5.	RZ	IZ = 5.0 mA	-	90.0	Ω
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.	-	1 = CATHODE	0.0	0.0	-
19.	-	2 = CATHODE	0.0	0.0	-
20.	-	3 = ANODE	0.0	0.0	-

Notes (1) pulse-tested  $t_p \leq 300 \mu\text{s}$ , duty cycle  $\leq 2\%$

DIMENSIONS  
in mm



Marking 1N2824B  
Customer GENERAL PURPOSE