

Technical Data

DIODE



maximum ratings

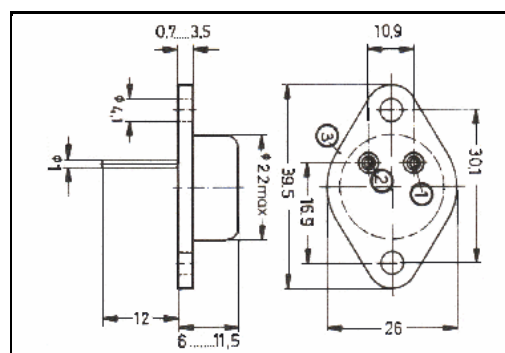
Voltage, Reverse (VZ)	160.0	V	NO.	1N2844B-M
Voltage, Reverse Peak (VRM)		V	TYPE	50W-ZENER
Current at VR = OV (IO)		A		
Current Average Rectified (IF)		A		
Current Surge Peak (IZM)	0.25	A	CASE	TO-3
Current, Surge (IFM) at tp =		A		ANODE TO CASE
Max. Power Dissipation (PT) at TC = 75 °C	50.0	W		MIL-S-19500+BI
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 = 80.0 mA, tp = 100.0 μs, dc = 0.1%	152.0	168.0	V
3.	IR	VR = 121.6 V	-	5.0	μA
4.	RZ	IZ = 80.0 mA, Δ IZ = 10.0% IZ, f = 1.0 kHz	-	80.0	Ω
5.	RZ	IZ = 5.0 mA	-	450.0	Ω
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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 $t_p \leq 300 \mu s$, duty cycle $\leq 2 \%$

DIMENSIONS
in mm



Marking 1N2844B-M + GREEN DOT

Customer	GENERAL PURPOSE
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