

Technical Data

DIODE



maximum ratings

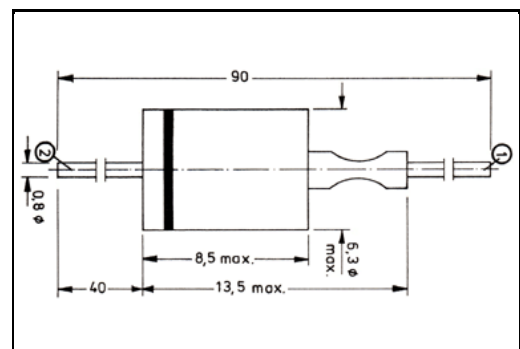
Voltage, Reverse (VZ)	30.0	V	NO.	1N3031B-M
Voltage, Reverse Peak (VRM)		V	TYPE	1W-ZENER
Current at VR = 0V (IO)		A		
Current Average Rectified (IF)		A		
Current Surge Peak (IZM)	0.031	A	CASE	DO-13
Current, Surge (IFM) at tp =		A		MIL-S-19500
Max. Power Dissipation (PT) at TC = 25 °C	1.0	W		BURN-IN 48h/125°C
Max. Thermal Resistance (Rth J-A)	150.0	°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.	VZ	$I_Z = 8.5 \text{ mA}$, $t_r = 100.0 \mu\text{s}$, $\text{dc} = 0.1 \%$	28.5	31.5	V
2.	RZ	$I_Z = 8.5 \text{ mA}$, $\Delta I_Z = 10.0 \%$ I_Z , $f = 1.0 \text{ kHz}$	-	40.0	Ω
3.	RZ	$I_Z = 0.25 \text{ mA}$	-	1k	Ω
4.	IR	$V_R = 22.8 \text{ V}$	-	0.5	μA
5.	VF	$I_F = 200.0 \text{ mA}$ (1)	-	1.5	V
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20.					

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

DIMENSIONS
in mm



Marking 1N3031B-M + GREEN DOT
Customer GENERAL PURPOSE