

Technical Data

DIODE



maximum ratings

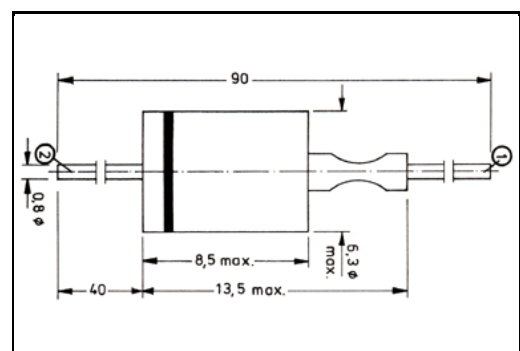
Voltage, Reverse (VZ)	51.0	V	NO.	1N3037B-M
Voltage, Reverse Peak (VRM)		V	TYPE	1W-ZENER
Current at VR = OV (IO)		A		
Current Average Rectified (IF)		A		
Current Surge Peak (IZM)	0.018	A	CASE	DO-13
Current, Surge (IFM) at tp =		A		MIL-S-19500
Max. Power Dissipation (PT) at TC = 25 °C	1.0	W		BURN-IN 48h/125°C
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	IZ = 5.0 mA, tp = 100.0 μs , dc = 0.1 %	48.4	53.5	V
2.	RZ	IZ = 5.0 mA, $\Delta\text{IZ} = 10.0\%$ IZ, f = 1.0 kHz	-	95.0	Ω
3.	RZ	IZ = 0.25 mA	-	1500.0	Ω
4.	IR	VR = 38.8 V	-	0.5	μA
5.	VF	IF = 200.0 mA (1)	-	1.5	V
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Notes (1)pulse-tested tp $\leq$ 300 μs , duty cycle $\leq$ 2 %

DIMENSIONS
in mm



Marking 1N3037B-M + GREEN DOT
Customer GENERAL PURPOSE