

Technical Data

DIODE



maximum ratings

Voltage, Reverse (VZ)	11.0	V	NO.	1N2975RB-M
Voltage, Reverse Peak (VRM)		V	TYPE	10W-ZENER
Current at VR = OV (IO)		A		
Current Average Rectified (IF)	2.0	A		
Current Surge Peak (IZM)	0.78	A	CASE	DO-4_UNF
Current, Surge (IFM) at tp =		A		CATHODE TO CASE
Max. Power Dissipation (PT) at TC = 55 °C	10.0	W		MIL-S-19500+BI
Max. Thermal Resistance (Rth J-C)	12.0	°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 = 230.0 mA, tp = 100.0 μs , dc = 0.1 %	10.5	11.5	V
2.	RZ	IZ = 230.0 mA, $\Delta\text{IZ} = 10.0\%$ IZ, f = 1.0 KHz	-	3.0	Ω
3.	RZ	IZ = 1.0 mA	-	250.0	Ω
4.	IR	VR = 8.4 V	-	5.0	μA
5.	VF	IF = 2.0 A (1)	-	1.5	V
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7.					
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18.					
19.					
20.					

Notes

(1)pulse-tested tp $\leq$ 300 μs , duty cycle $\leq$ 2 %

DIMENSIONS
in mm

Marking 1N2975RB-M + GREEN DOT
Customer GENERAL PURPOSE

