

Technical Data

DIODE



maximum ratings

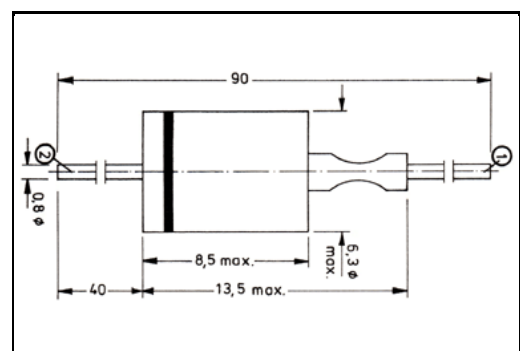
Voltage, Reverse (VBR)	51.0	V	NO.	1N5650A-M
Voltage, Reverse Peak (VRM)	70.1	V	TYPE	SUPPRESSOR
Current at VR = 0V (IO)	A			
Current Average Rectified (IF)	A			
Current, Surge Peak (IPM)	21.4	A	CASE	DO-13
Current, Surge (IFM) at tp = 8.3 ms	200.0	A		MIL-S-19500
Max. Power Dissipation (PT) at TA = 75 °C	1.0	W		BURN-IN 48h/125°C
Max. Thermal Resistance (Rth J-A)	100.0	°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.	IR	VR = 43.6 V	-	5.0	μA
2.	VBR	IR = 1.0 mA	48.5	53.6	V
3.	VF	IF = 1.0 A (1)	-	1.5	V
4.	PBR	tp = 1.0 ms	-	1.5	kW
5.	VCL	IP = 21.4 A, tp = 1.0 ms	-	70.1	V
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Notes (1)pulse-tested tp ≤ 300 μs , duty cycle ≤ 2 %

DIMENSIONS
in mm



Marking 1N5650A-M + GREEN DOT
Customer GENERAL PURPOSE