

Technical Data

DIODE



maximum ratings

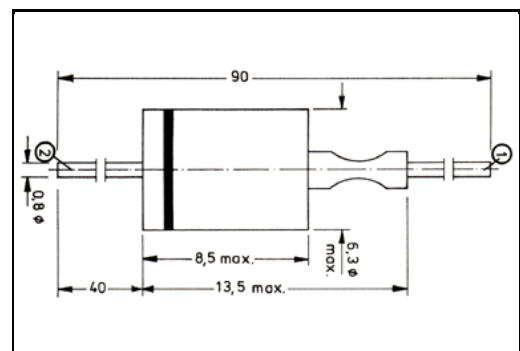
Voltage, Reverse (VR)	800.0	V	NO.	1N3941-M
Voltage, Reverse Peak (VRM)	960.0	V	TYPE	SILICON
Current at VR = 0V (IO)		A		CONTROLLED
Current Average Rectified (IF)	2.0	A		AVALANCHE
Current Surge Peak (IFM)	6.5	A	CASE	DO-13
Current, Surge (IFM) at tp = 10 ms	70.0	A		MIL-S-19500
Max. Power Dissipation (PT) at TC = °C		W		BURN-IN 48h/125°
Max. Thermal Resistance (Rth J-A)	70.0	°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 = 2.0 A (1)	-	1.1	V
2.	IR	VR = 800.0 V	-	5.0	μA
3.	IR	VR = 800.0 V, TC = 150.0° C	-	500.0	μA
4.	VBR	IR = 50.0 μA	960.0	1400.0	V
5.	PRSM	tp = 10.0 μs	-	3.0	kW
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20.					

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

DIMENSIONS
in mm



Marking 1N3941-M + GREEN DOT
Customer GENERAL PURPOSE