

Technical Data

DIODE



maximum ratings

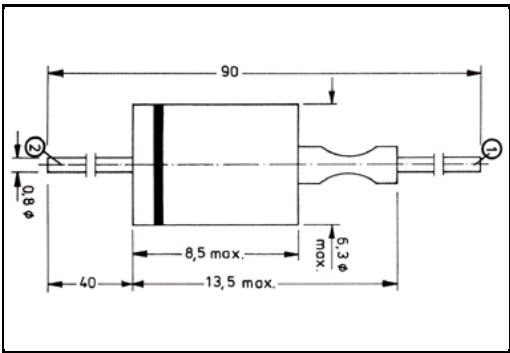
Voltage, Reverse (VR)	1000.0	V	NO.	1N3942
Voltage, Reverse Peak (VRM)	1160.0	V	TYPE	SILICON
Current at VR = 0V (IO)		A		CONTROLLED
Current Average Rectified (IF)	2.0	A		AVALANCHE
Current Surge Peak (IFM)	6.5	A	CASE	DO-13
Current, Surge (IFM) at tp = 10 ms	70.0	A		
Max. Power Dissipation (PT) at TC = °C		W		
Max. Thermal Resistance (Rth J-A)	70.0	°C/W		
Max. Junction Temperature (TJ)	175.0	°C		

PERFORMANCE CHARACTERISTICS at T _C = 25°C, unless otherwise noted					
NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	VF	IF = 2.0 A (1)	-	1.1	V
2.	IR	VR = 1000.0 V	-	5.0	µA
3.	IR	VR = 1000.0 V, TC = 150.0° C	-	500.0	µA
4.	VBR	IR = 50.0 µA	1160.0	1500.0	V
5.	PRSM	tp = 10.0 µs	-	1.5	kW
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Notes

(1)pulse-tested tp ≤ 300 µs, duty cycle ≤ 2 %

DIMENSIONS
in mm



Marking

Customer

1N3942

GENERAL PURPOSE