

Technical Data

DIODE



maximum ratings

Voltage, Reverse (VR)	600.0	V	NO.	1N4946
Voltage, Reverse Peak (VRM)	600.0	V	TYPE	FAST-RECOVERY
Current at VR = 0V (IO)		A		
Current Average Rectified (IF)	1.0	A		
Current Surge Peak (IFM)		A	CASE	SOD-57
Current, Surge (IFM) at tp = 8.3 ms	25.0	A		
Max. Power Dissipation (PT) at TC = 25 °C		W		
Max. Thermal Resistance (Rth J-A)	40.0	°C/W		
Max. Junction Temperature (TJ)	175.0	°C		

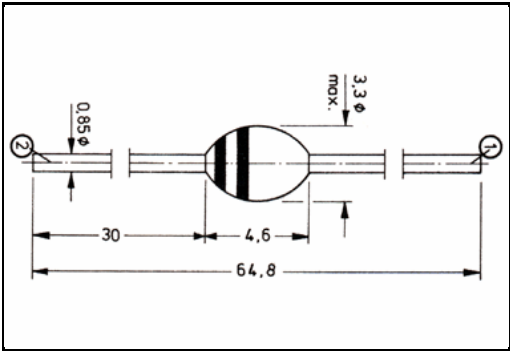
PERFORMANCE CHARACTERISTICS at T_c = 25°C, unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	IR	VR = 600.0 V	-	1.0	µA
2.	IR	VR = 600.0 V, TA = 150.0° C	-	200.0	µA
3.	VF	IF = 1.0 A (1)	-	1.3	V
4.	trr	IF = 0.5 A, IR = 1.0 A	-	250.0	ns
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Notes

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

DIMENSIONS
in mm



Marking

Customer

1N4946

GENERAL PURPOSE