

Technical Data

DIODE



maximum ratings

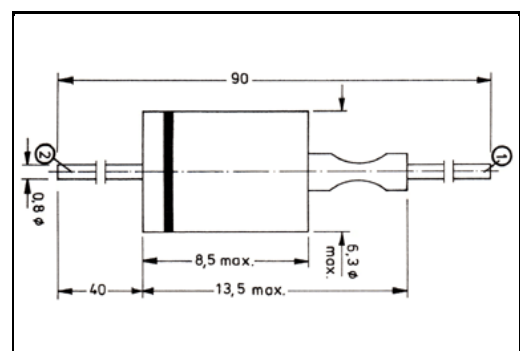
Voltage, Reverse (VBR)	22.0	V	NO.	1N5641A
Voltage, Reverse Peak (VRM)	30.6	V	TYPE	SUPPRESSOR
Current at VR = 0V (IO)		A		
Current Average Rectified (IF)		A		
Current, Surge Peak (IPM)	49.0	A	CASE	DO-13
Current, Surge (IFM) at tp = 8.3 ms	200.0	A		
Max. Power Dissipation (PT) at TA = 75 °C	1.0	W		
Max. 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 = 18.8 V	-	5.0	μA
2.	VBR	IR = 1.0 mA	20.9	23.1	V
3.	VF	IF = 1.0 A (1)	-	1.5	V
4.	PBR	tp = 1.0 ms	-	1.5	kW
5.	VCL	IP = 49.0 A, tp = 1.0 ms	-	30.6	V
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

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

DIMENSIONS
in mm



Marking 1N5641A
Customer GENERAL PURPOSE