

Technical Data

DIODE



maximum ratings

Voltage, Reverse (VZ)	12.0	V	NO.	1N2810B
Voltage, Reverse Peak (VRM)		V	TYPE	50W-ZENER
Current at VR = OV (IO)		A		
Current Average Rectified (IF)		A		
Current Surge Peak (IZM)	3.6	A	CASE	TO-3
Current, Surge (IFM) at tp =		A		ANODE TO CASE
Max. Power Dissipation (PT) at TC = 75 °C	50.0	W		
Max. Thermal Resistance (Rth J-C)	2.0	°C/W		
Max. Junction Temperature (TJ)	175.0	°C		

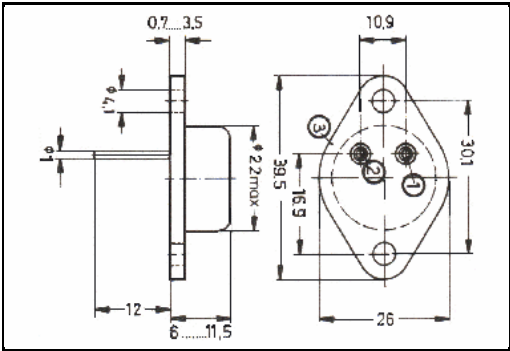
PERFORMANCE CHARACTERISTICS at T_c = 25°C, unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	VF	IF = 10.0 A (1)	-	1.5	V
2.	VZ	IZ = 1.0 A, tp = 100.0 μs, dc = 0.1%	11.4	12.6	V
3.	IR	VR = 9.1 V	-	5.0	μA
4.	RZ	IZ = 1.0 A, , Δ IZ = 10.0% IZ, f = 1.0 kHz	-	1.0	Ω
5.	RZ	IZ = 5.0 mA	-	80.0	Ω
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.	-	1 = CATHODE	0.0	0.0	-
19.	-	2 = CATHODE	0.0	0.0	-
20.	-	3 = ANODE	0.0	0.0	-

Notes

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

DIMENSIONS
in mm



Marking

Customer

1N2810B

GENERAL PURPOSE