

Technical Data

DIODE



maximum ratings

Voltage, Reverse (VR)	100.0	V	NO.	1N5416
Voltage, Reverse Peak (VRM)		V	TYPE	FAST-RECOVERY
Current at VR = 0V (IO)		A		RECTIFIER
Current Average Rectified (IF)	3.0	A		
Current Surge Peak (IFM)		A	CASE	SOD-64_1.3MM
Current, Surge (IFM) at tp = 8.3 ms	80.0	A		
Max. Power Dissipation (PT) at TC = °C		W		
Max. Thermal Resistance (Rth J-A)	25.0	°C/W		
Max. Junction Temperature (TJ)	175.0	°C		

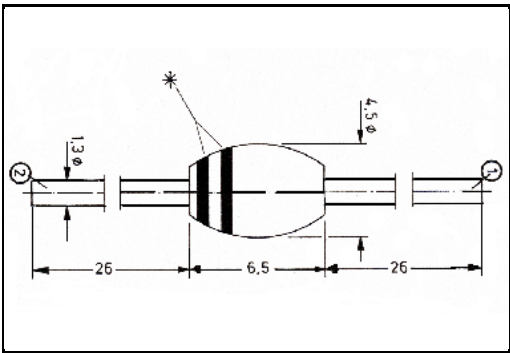
PERFORMANCE CHARACTERISTICS at T_C = 25°C, unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	IR	VR = 100.0 V	-	1.0	µA
2.	IR	VR = 100.0 V, TA = 100.0° C	-	20.0	µA
3.	VF	IF = 3.0 A	-	1.1	V
4.	VF	IF = 9.0 A (1)	-	1.5	V
5.	CT	VR = 4.0 V, f = 1.0 MHz (2)	-	150.0	pF
6.	trr	IF = 1.0 A, VR = 30.0 V	-	150.0	ns
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

Notes

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

DIMENSIONS
in mm



Marking

Customer

1N5416

GENERAL PURPOSE