

# Technical Data

## DIODE



### maximum ratings

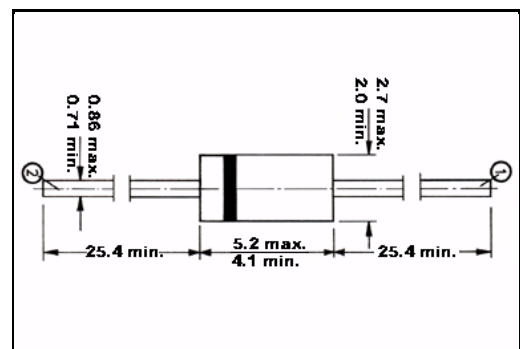
Voltage, Reverse (VR)	80.0	V	NO.	BAT49
Voltage, Reverse Peak (VRM)		V	TYPE	SCHOTTKY
Current at VR = 0V (IO)		A		
Current Average Rectified (IF)	0.5	A		
Current Surge Peak (IZM)		A	CASE	DO-41P
Current, Surge (IFM) at tp = 10 ms	10.0	A		
Max. Power Dissipation (PT) at TC = °C		W		
Max. Thermal Resistance (Rth J-A)	110.0	°C/W		
Max. Junction Temperature (TJ)	125.0	°C		

### PERFORMANCE CHARACTERISTICS at $T_c = 25^\circ\text{C}$ , unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	IR	VR = 80.0 V	-	0.2	mA
2.	VF	IF = 10.0 mA	-	0.32	V
3.	VF	IF = 100.0 mA	-	0.42	V
4.	VF	IF = 1.0 A (1)	-	1.0	V
5.	CT	VR = 5.0 V, f = 1.0 MHz (2)	-	35.0	pF
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  $\leq 2\%$   
 (2)typical value

DIMENSIONS  
in mm



Marking BAT49  
 Customer GENERAL PURPOSE