

# Technical Data

## DIODE



### maximum ratings

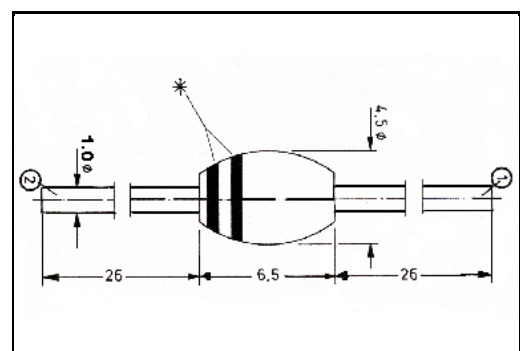
Voltage, Reverse (VR)	125.0	V	NO.	1N5810-M
Voltage, Reverse Peak (VRM)	135.0	V	TYPE	FAST-RECOVERY
Current at VR = 0V (IO)		A		
Current Average Rectified (IF)	6.0	A		
Current Surge Peak (IZM)		A	CASE	SOD-64_1.0MM
Current, Surge (IFM) at tp = 8.3 ms	125.0	A		MIL-S-19500
Max. Power Dissipation (PT) at TC = °C		W		BURN-IN 48h/125°C
Max. Thermal Resistance (Rth J-A)	30.0	°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 = 125.0 V	-	5.0	$\mu\text{A}$
2.	IR	VR = 125.0 V, TA = 100.0° C	-	150.0	$\mu\text{A}$
3.	VF	IF = 4.0 A (1)	-	0.875	V
4.	CT	VR = 10.0 V (2)	-	45.0	pF
5.	trr	IF = 1.0 A, ir = 0.1 A	-	30.0	ns
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7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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16.					
17.					
18.					
19.					
20.					

Notes (1)typical value  
(2)pulse-tested tp ≤ 300  $\mu\text{s}$ , duty cycle ≤ 2 %

DIMENSIONS  
in mm



Marking 5810-M + GREEN DOT  
Customer GENERAL PURPOSE