

Features

- · Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection





SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

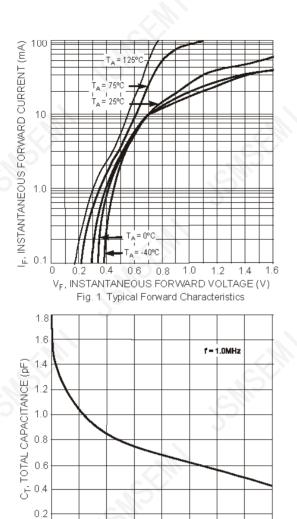
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Non-Repetitive Peak Reverse Voltage	V _{RSM}	70	V
Maximum DC Blocking Voltage	V _R	70	V
Average Forward Rectified Current	I _{F(AV)}	70	mA
Peak Forward Surge Current (t < 10 ms)	I _{FSM}	100	mA
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating Junction Temperature Range	Tj	- 55 to + 125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at Ta = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 15 \text{ mA}$	V _F	12	0.41 1	V
Reverse Breakdown Voltage at I _R = 10 μA	V _{(BR)R}	70	-	V
Reverse Current at V _R = 50 V	I _R	-	100	nA
Total Capacitance at $V_R = 0$, $f = 1$ MHz	Ст	-	2	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$ to $I_R = 1 \text{ mA}$, $R_L = 100 \Omega$	t _{rr}	-	5	ns

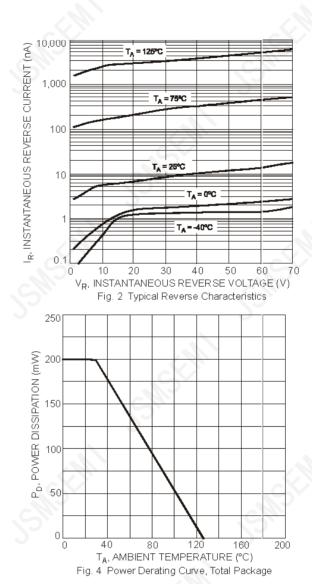


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V_R, DC REVERSE VOLTAGE (V) Fig. 3 Total Capacitance vs. Reverse Voltage

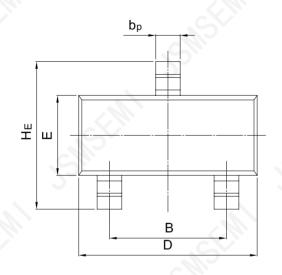


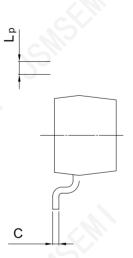


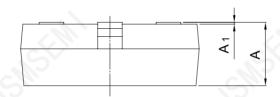
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23









UNIT	Α	В	bp	С	D	E	HE	A 1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	



Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024
-11		

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