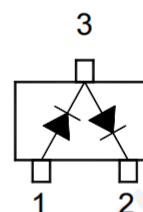


Features

- Very low leakage current
- Medium speed switching times
- Series pair configuration
- Low leakage switching double diode
- For low leakage current applications



SOT-23

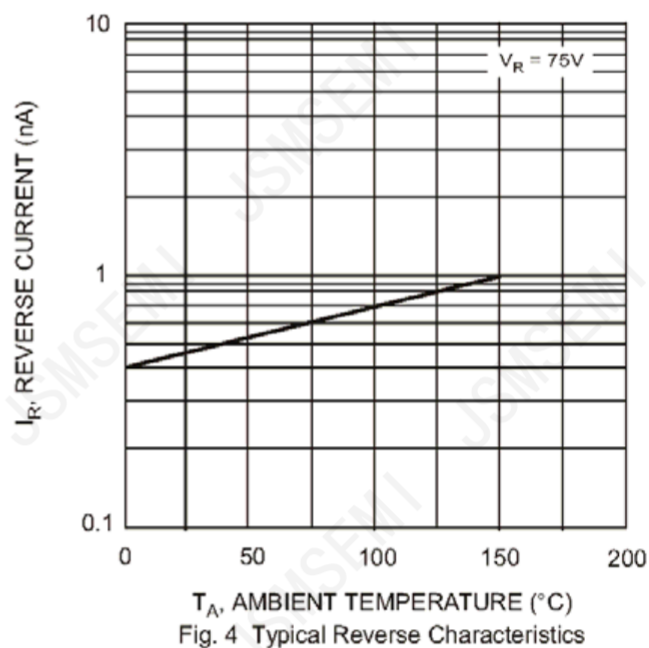
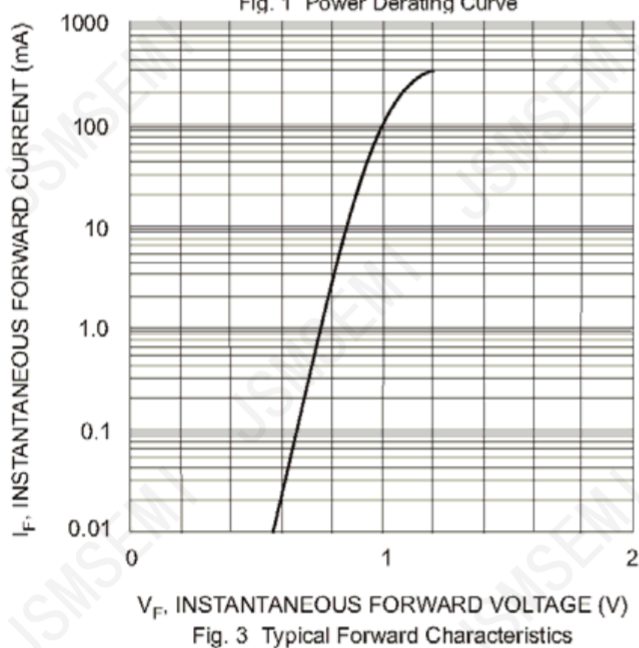
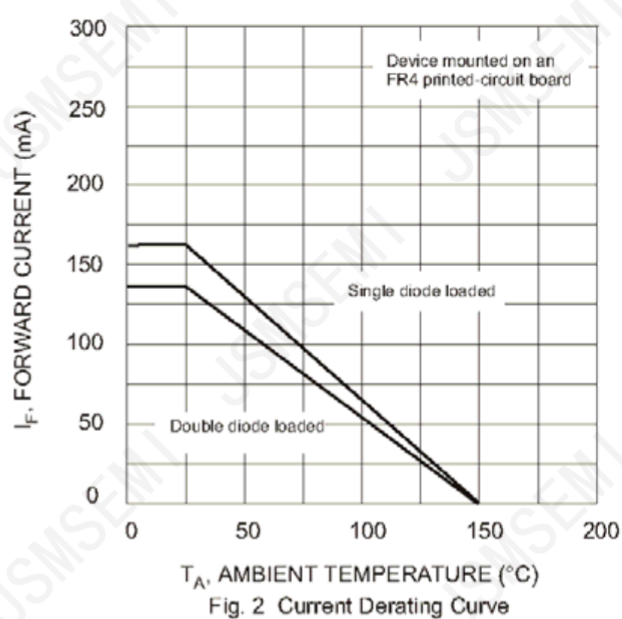
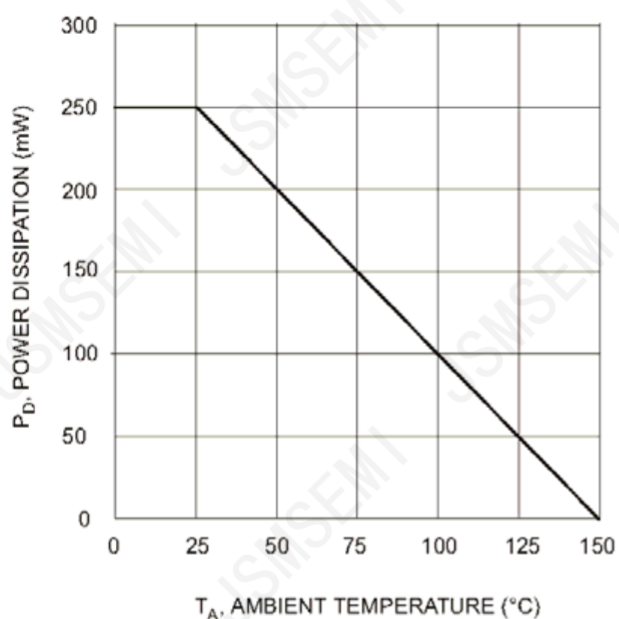


Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

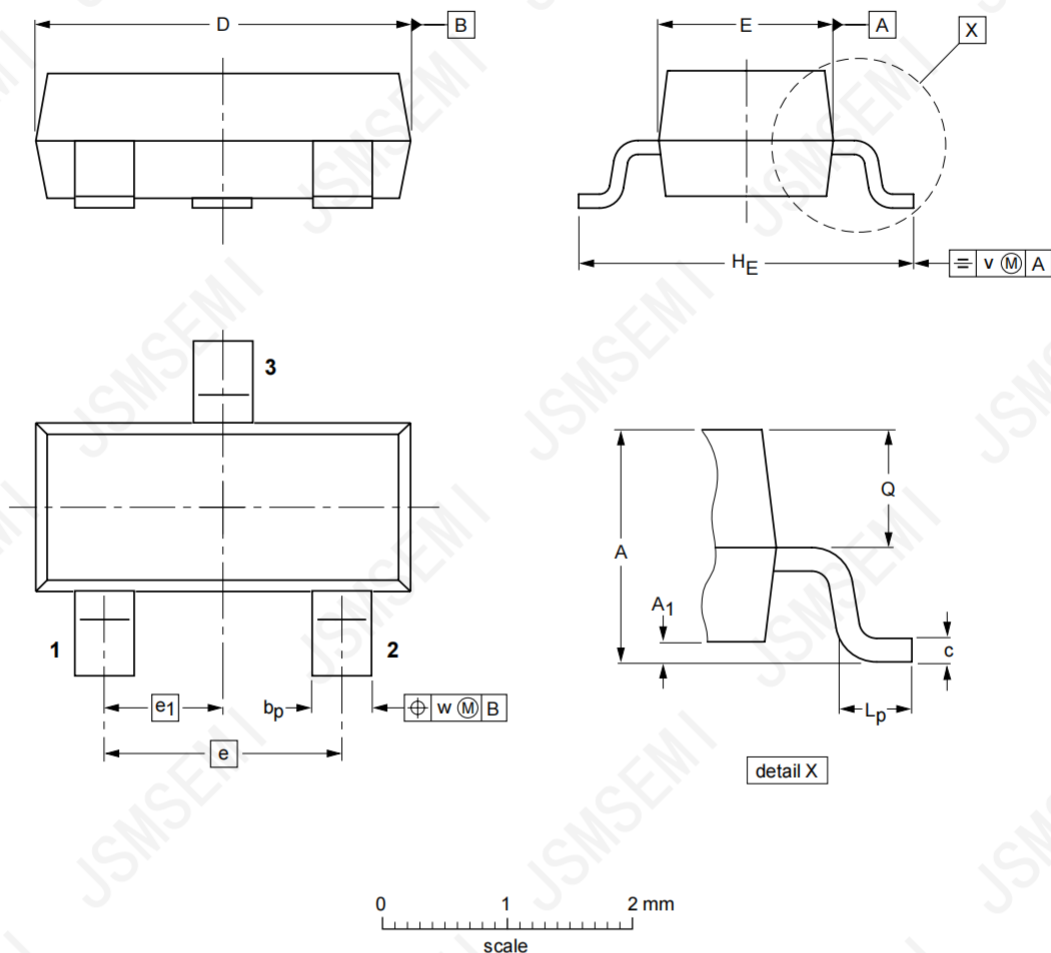
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	85	V
Continuous Forward Current	I_F	160	mA
Single Diode		140	
Double Diode			
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	4	A
at $t = 1\ \mu\text{s}$		1	
at $t = 1\ \text{ms}$		0.5	
at $t = 1\ \text{s}$			
Power Dissipation	P_D	250	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	$^\circ\text{C}$

Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\ \mu\text{A}$	$V_{(BR)R}$	85	-	-	V
Forward Voltage at $I_F = 1\ \text{mA}$ at $I_F = 10\ \text{mA}$ at $I_F = 50\ \text{mA}$ at $I_F = 150\ \text{mA}$	V_F	-	-	0.9	V
		-	-	1	
		-	-	1.1	
		-	-	1.25	
Reverse Current at $V_R = 75\ \text{V}$ at $V_R = 75\ \text{V}, T_j = 150^\circ\text{C}$	I_R	-	-	5	nA
		-	-	80	
Total Capacitance at $V_R = 0, f = 1\ \text{MHz}$	C_T	-	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10\ \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\ \Omega$	t_{rr}	-	-	3	μs



SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

Revision History

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

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