

SOT-23 Plastic-Encapsulate Switching Diodes

Features

- Very Low Leakage Current
- Low Reverse Recovery Time
- Halogen-free Package
- Surface Mount Package
- Epoxy UL: 94V-0

Mechanical Data

- Low Leakage Current Applications
- High Speed Switch Applications



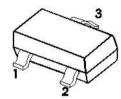


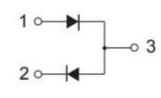
Marking: C3

SOT-23

Pin definition







Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	Value	Unit	
Peak Reverse Voltage	V_{RM}	85	V	
Peak Repetitive Peak Reverse Voltage	V_{RRM}	80	V	
Working Peak Reverse Voltage	V_{RWM}	80	V	
DC Reverse Voltage	V_R	80	V	
Non-repetitive Peak Forward Current	I _{FM}	300	mA	
Average Rectified Current	Io	100	mA	
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2	А	
Power Dissipation	P_D	150	mW	
Junction Temperature	TJ	150	$^{\circ}$	
Storage Temperature Range	T _{STG}	-55 to+150	$^{\circ}$ C	
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	833	°C/W	

Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit	
Reverse Breakdown Voltage (Note 3)	V _(BR)	IR = 100uA	80			V	
Forward Voltage	V _F	IF = 100mA			1.2	V	
Leakage Current (Note 3)	I _R	VR = 80V			0.5	uA	
Diode Capacitance	C _D	VR = 0, f = 1.0MHz			3	pF	
Reverse Recovery Time	TRR	IF = 10mA			4	nS	

Notes:

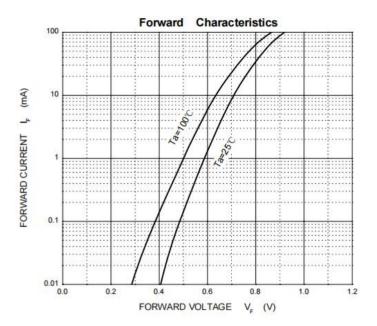
- 1 .Device mounted on FR-4 PC board with recommended pad layout.
- 2. No purposefully addedlead.
- 3. Short duration test pulse used to minimize self-heating effec

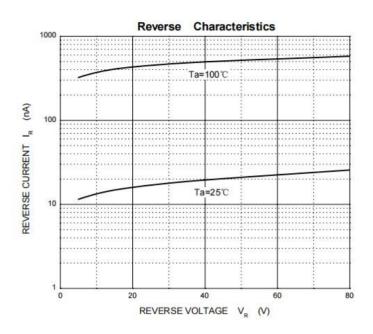


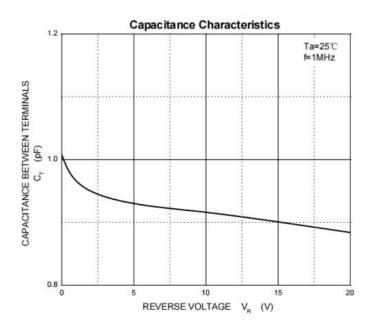


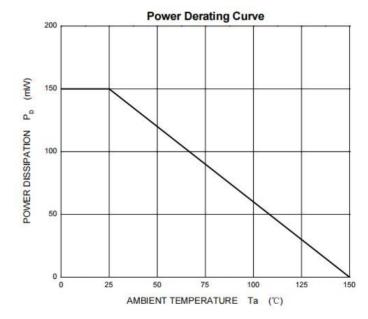
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)







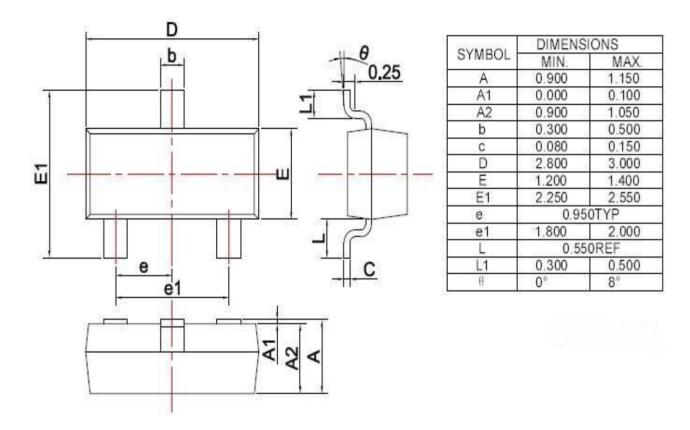






Package Outline Dimensions

millimeters



Revision History

Document Version	Date of release	Description of changes
Rev.A	2022.05.10	First issue



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