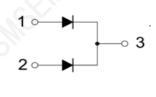


FEATURES

- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications





SOT-23

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

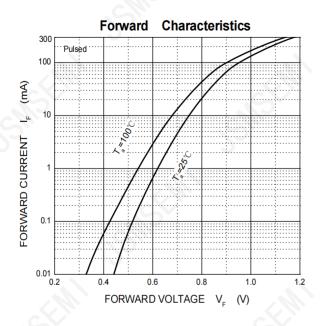
Symbol	Parameter	Value	Unit	
V _{RRM}	Peak Repetitive Reverse Voltage	250	V	
V _{RWM}	Working Peak Reverse Voltage	250		
V _{R(RMS)}	RMS Reverse Voltage	175	V	
Ιο	Average Rectified Output Current	225	mA	
I _{FRM}	Repetitive Peak Forward Surge Current	625	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	1.7	Α	
P _D	Power Dissipation	350	mW	
R _{OJA}	Thermal Resistance from Junction to Ambient	357	°C/W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C	

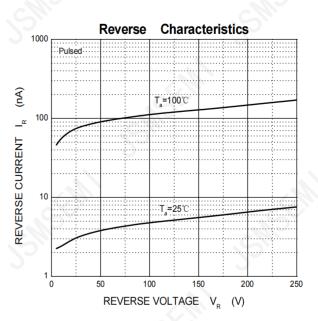
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

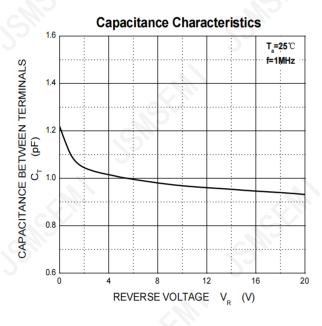
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	V _(BR)	I _R =100μA	250			V	
Reverse current	I _R	V _R =250V	2		0.1	μA	
Famuard valtage	V _F	I _F =100mA			1	V	
Forward voltage		I _F =200mA			1.25		
Total capacitance	C _{tot}	V _R =0V,f=1MHz			5	pF	
Reverse recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_m = 0.1 \times I_R, R_L = 100 \Omega$			50	ns	

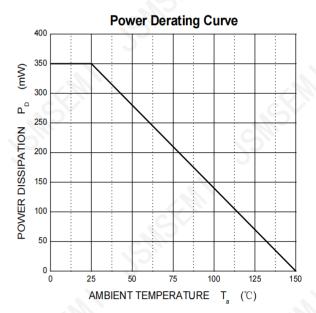


Typical Characteristics



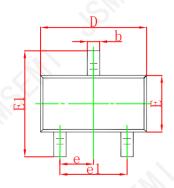


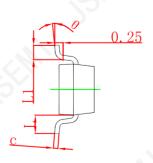


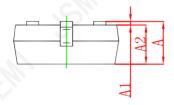




SOT-23 Package Outline Dimensions

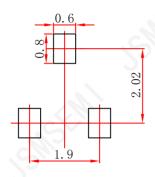






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



Revision History

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

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