

SOT-23 Plastic-EncapsulateSwitchingDiodes

Features

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

Applications

- Low Leakage Current Applications
- High Speed Switch Applications



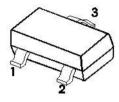


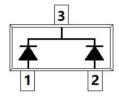
Marking:JX

SOT-23

Pin definition

Epuivalent circuit





Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter		Symbol	Value	Unit
Working Peak Reverse Voltage		V_{RM}	85	V
RMS Reverse Voltage		$V_{R(RMS)}$	60	V
Reverse Voltage		V _R	85	V
Non-repetitive pak frward crrent		I _{FM}	125	mA
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-RepetitivePeakForwardSurge Currentt	@ t = 1.0s	I _{FSM}	4	А
	@ t = 1.0ms		1	А
	@ t = 1.0s		0.5	Α
Power Dissipation		P _D	150	mW
Thermal Resistance Junction to Ambient Air (Note 1)		$R_{\theta JA}$	833	°C/W
Operating and Storage Temperature Range)		T _J , T _{STG}	-65 to+150	$^{\circ}\!\mathbb{C}$

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Reverse Breakdown Voltage (Note 3)	V(BR)	IR = 100uA	85			V
Forward Voltage	VF	IF = 1.0mA			0.9	V
		IF = 10mA			1.0	V
		IF = 50mA			1.1	V
		IF = 150mA			1.25	V
Leakage Current (Note 3)	lr	VR = 75V			5	nA
		VR = 75V, Tj = 150°C			80	nA
Diode Capacitance	CD	VR = 0, f = 1.0MHz		2		pF
Reverse Recovery Time	Trr	IF = IR = 10mA, Irr = 0.1xIR, RL = 100 Ω			3.0	nS

Notes:

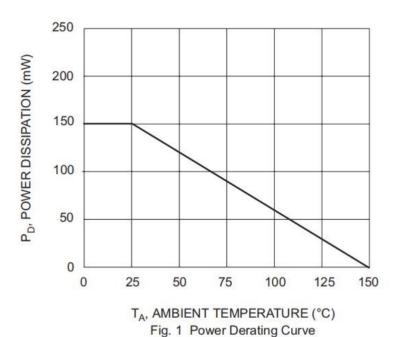
- 1 .Device mounted on FR-4 PC board with recommended pad layout.
- 2. No purposefully added lead.
- 3. Short duration test pulse used to minimize self-heating effec

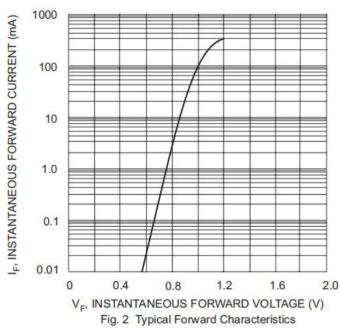


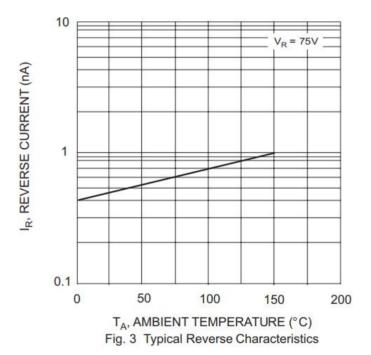


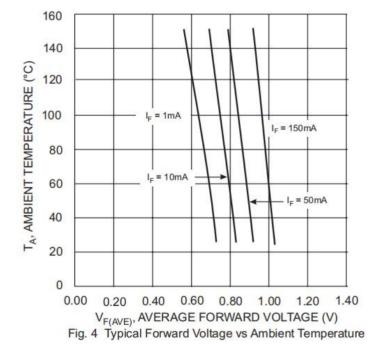
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)







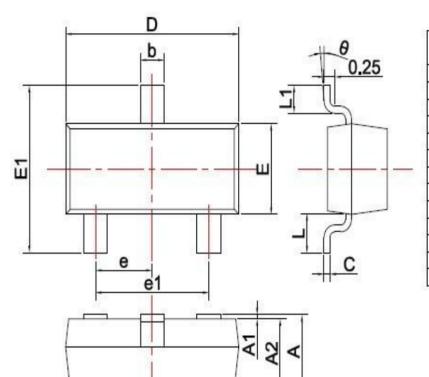






Package Outline Dimensions

in inches (millimeters)



OVALDOL	DIMENSIONS			
SYMBOL	MIN.	MAX.		
Α	0.900	1.150		
A1	0.000	0.100		
A2	0.900	1.050		
b	0.300	0.500		
С	0.080	0.150		
D	2.800	3.000		
E	1.200	1.400		
E1	2.250	2.550		
е	0.950TYP			
e1	1,800	2.000		
L	0.550REF			
L1	0.300	0.500		
θ	0°	8°		

Unit: mm

Revision History

Document Version	Date of release	Description of changes
Rev.A	2018.07.07	First issue



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