SOT -23 Plastic-Encapsulate Schottky Barrier Diode

Features

- High Current Capability
- Low Forward Voltage Drop
- Extremely Fast Switching Speed

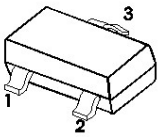
RoHS
COMPLIANT

SOT-23

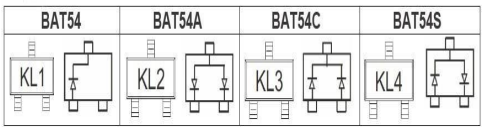
Mechanical Data

- SOD-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

Pin definition



Epuivalent circuit

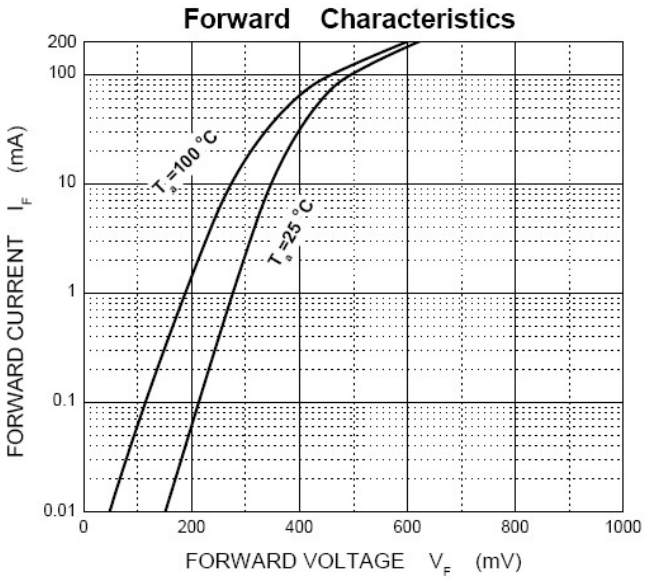


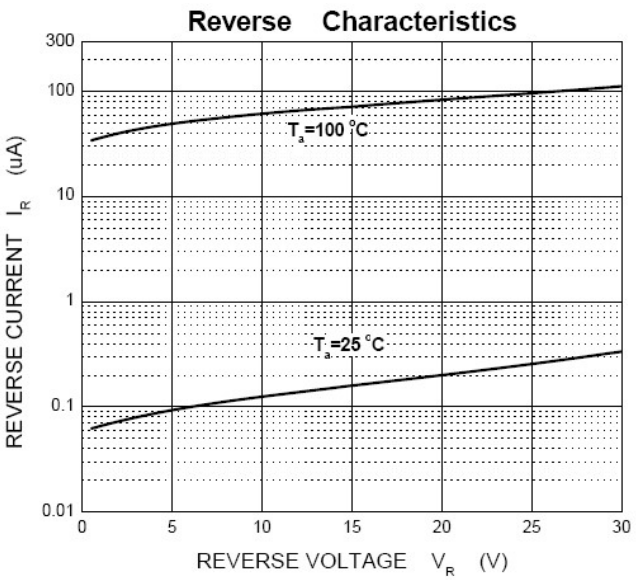
Maximum Ratings& Thermal Characteristic(TA=25℃ unless otherwise noted)			
Parameters	**Symbol**	**Value**	**Unit**
Maximum repetitive peak reverse voltage	V_{RRM}	30	V
Maximum RMS voltage	V_{RMS}	21	V
Maximum DC blocking voltage	$V_{D\ C}$	30	V
Typical thermal resistance	$R_{\theta JA}$	500	℃/W
Junction Temperature	T_J	125	℃
Storage temperature range	T_{STG}	-55-+150	℃
Power Dissipation	P_D	200	mW
Non-repetitive Peak Forward Current	I_{FM}	200	mA
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	600	mA

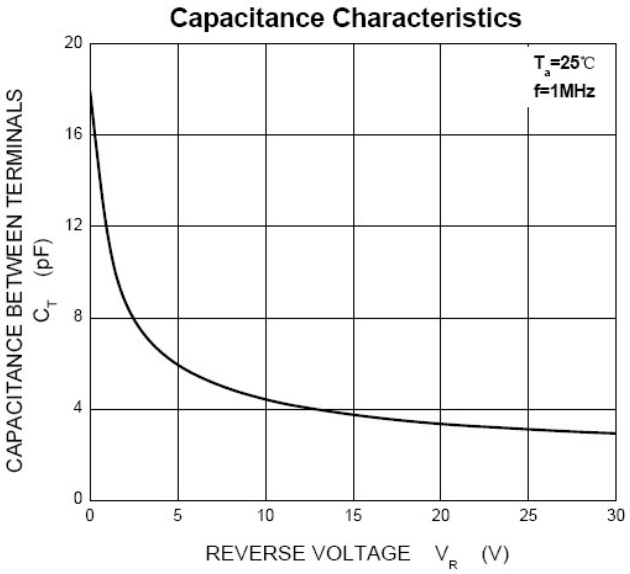
Electrical Characteristics(TA=25℃ unless otherwise noted)					
Parameters	**Symbol**	**Test Condition**	**Limits**		**Unit**
			Min	**Max**	
Maximum forward voltage	V_F	IF=0.1mA		240	mV
		IF=1.0mA		320	
		IF=10mA		400	
		IF=30mA		500	
		IF=100mA		1000	
Maximum reverse breakdown voltage	V_R	IR=100uA	30		V
Maximum reverse current	I_R	VR=25V		2.0	uA
Reverse Recovery time	T_{RR}	IF= IR=10mA		5	nS
		RL=100 Ω			
		IRR=0.1 X IR			
Type junction capacitance	C_T	VR=0V, f=1MHZ		10	pF

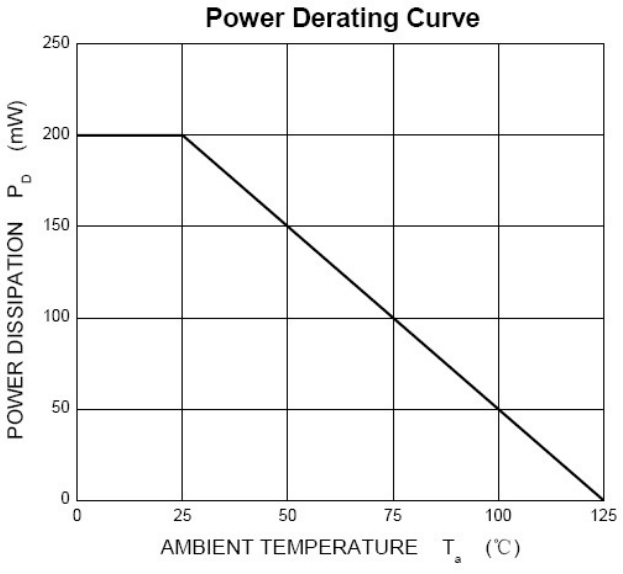
Ratings and Characteristics Curves

(T_A = 25℃ unless otherwise noted)





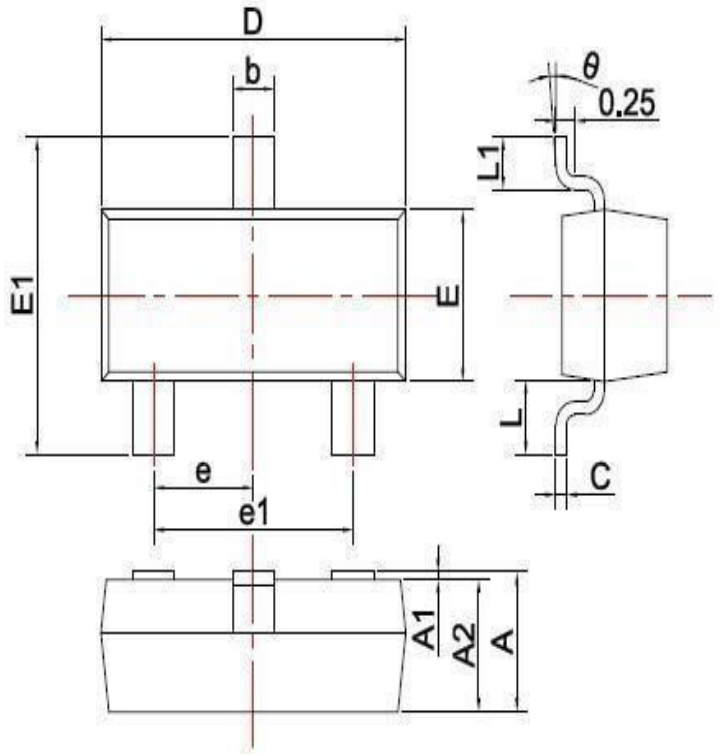




Version:Rev.A

Package Outline Dimensions

millimeters



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.02.16	First issue

Version:Rev.A

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