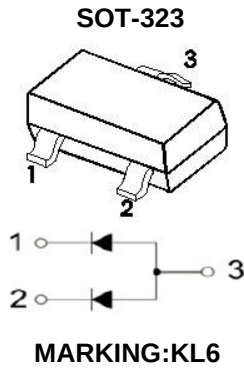


SOT-323 贴片塑封肖特基二极管

SOT-323 Plastic-Encapsulate Schottky Barrier Diode



Features

- Extremely Fast Switching Speed
- Low Forward Voltage Drop
- Low capacitance

Mechanical Data

- SOT-323 Small Outline Plastic Package
- Epoxy UL:94V-0
- Mounting Position: Any
- Device meets MSL 1 requirements

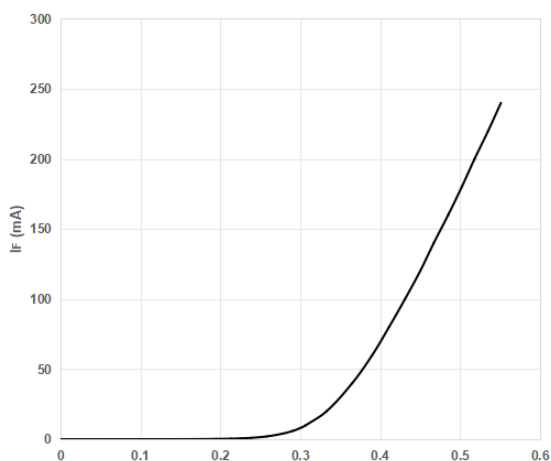
Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	30	V
Forward Continuous Current	I _{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	600	mA
Repetitive Peak Forward Current @ t≤1s,δ≤0.5	I _{FRM}	300	mA
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	500	°C/W
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

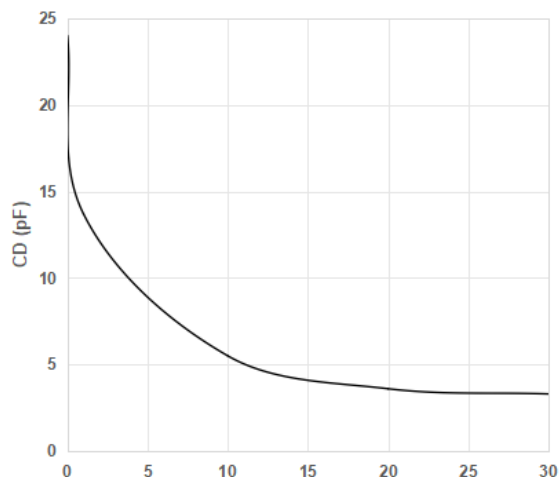
Electrical Characteristics(T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Reverse Voltage	V _{BR}	30	--	--	V	I _R =100μA
Forward voltage	V _F	--	--	0.24	V	I _F =0.1mA
		--	--	0.32	V	I _F =1.0mA
		--	--	0.40	V	I _F =10mA
		--	--	0.50	V	I _F =30mA
		--	--	1.00	V	I _F =100mA
Reverse current	I _R	--	--	2.0	μA	V _R =25V
Diode capacitance	C _D	--	14	--	pF	V _R =1V,f=1MHz
Reverse recovery time	t _{rr}	--	--	6	nS	I _F =I _R =10mA I _{rr} =0.1×I _R ,R _L =100Ω

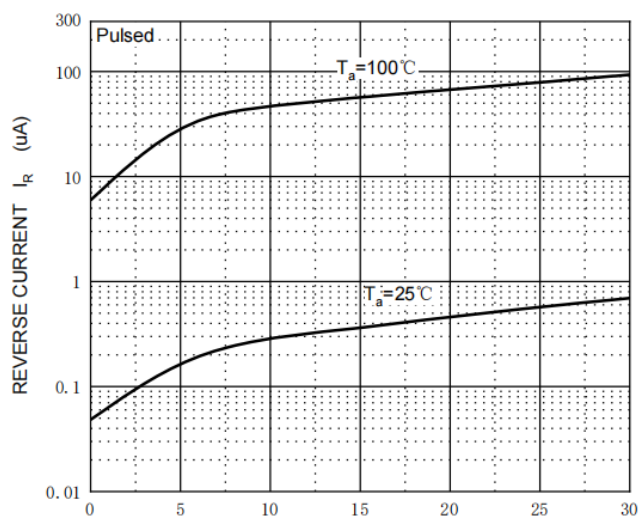
Typical Performance Characteristics (TA=25°C unless otherwise Specified)



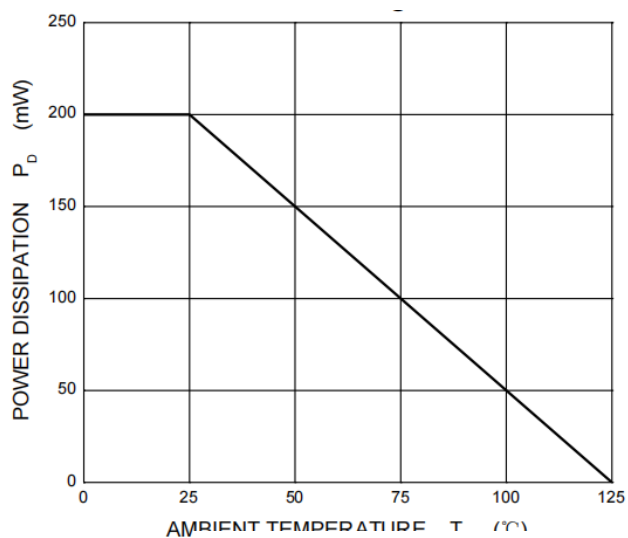
Forward Characteristics



Capacitance Characteristics

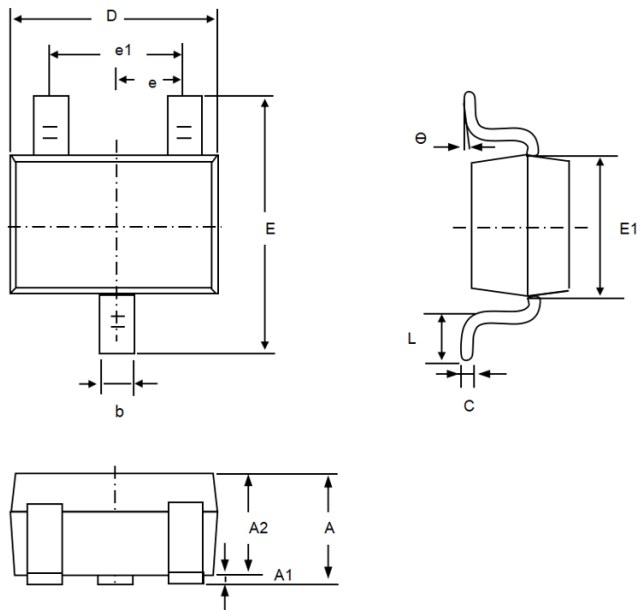


Reverse Characteristics



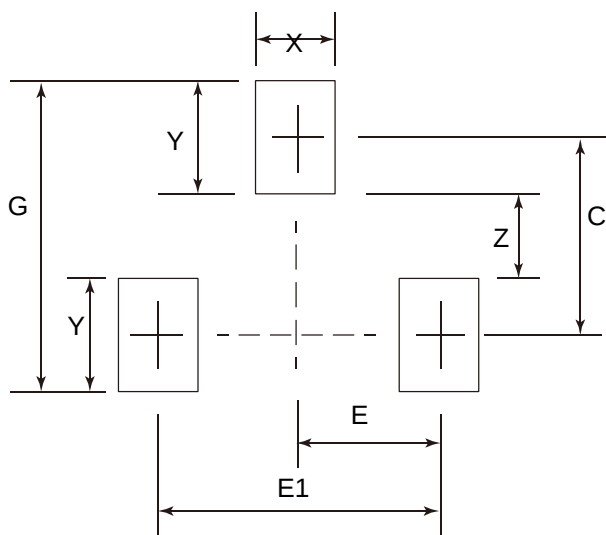
Power Derating Curve

SOT-323 Package Outline Drawing



Symbol	Dimensions (mm)		
	Min	Typ	Max
A	0.90	1.00	1.10
A1	0.00	0.05	0.10
A2	0.90	0.95	1.00
b	0.15	0.25	0.35
c	0.08	0.12	0.15
D	1.80	2.00	2.20
E	2.15	2.25	2.35
E1	1.15	1.25	1.35
e	0.650 Typ		
e1	1.20	1.30	1.40
L	0.25	0.30	0.40
θ	0°	4°	8°

Suggested Land Pattern



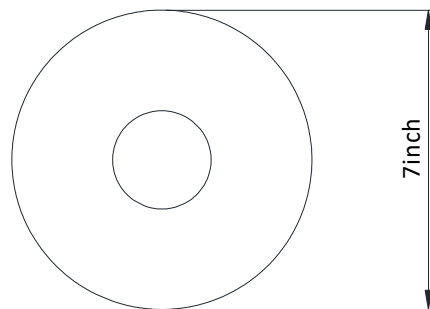
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
C	2.2	0.087
E	0.65	0.026
E1	1.30	0.051
G	2.60	0.102
X	0.50	0.020
Y	0.80	0.031
Z	1.4	0.055

Ordering Information

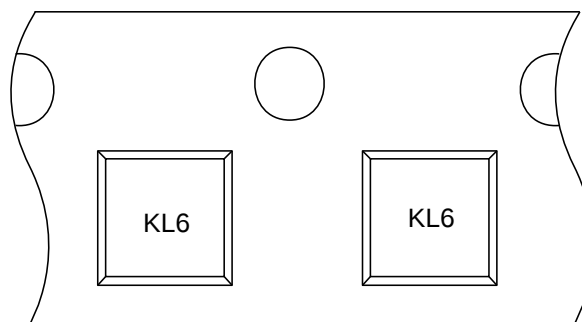
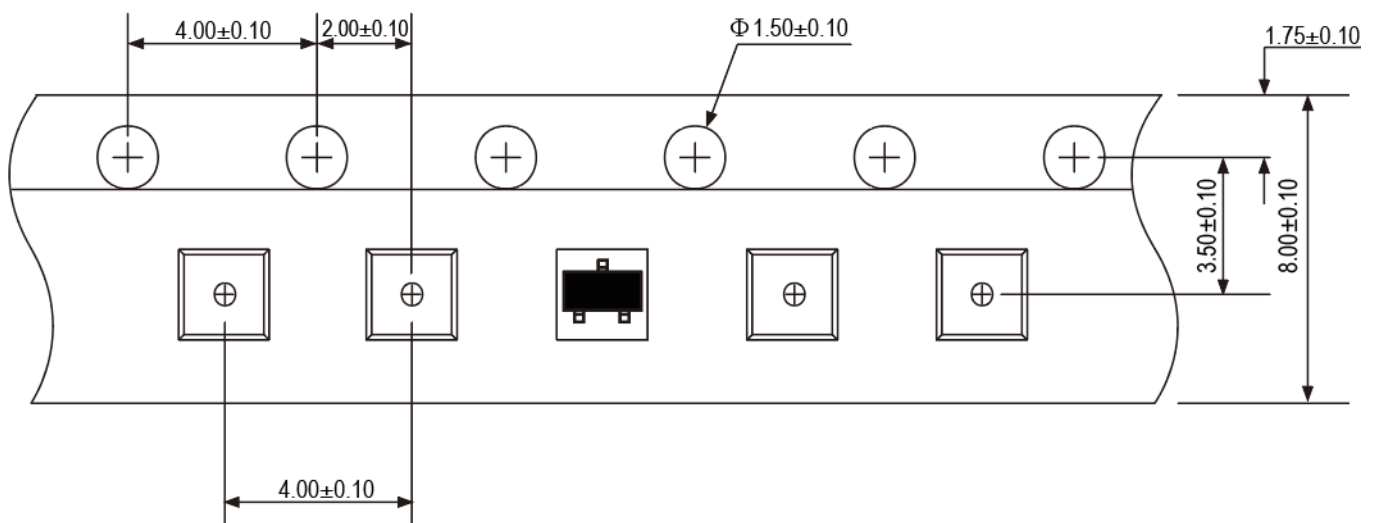
Part Number	Shipping	Reel Size
BAT540AW	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

IMPORTANT NOTICE

The information given in this document is believed to be accurate and reliable but shall in no event be regarded as a guarantee of conditions or characteristics. PN-Silicon assumes no responsibility for any errors in this document, or for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of PN-Silicon.

The product listed in this document are designed to be used with ordinary electronic equipment or devices and are not authorized to used with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, aerospace machinery, nuclear-reactor controllers, automotive and other safety device.)

The  logo is a registered trademark of PN-Silicon co., ltd which reserves the right to make changes to the product or this document at any time without notice. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. PN-Silicon makes no warranty, representation or guarantee, express or implied, regarding the suitability of its products for any particular purpose. All rights reserved.