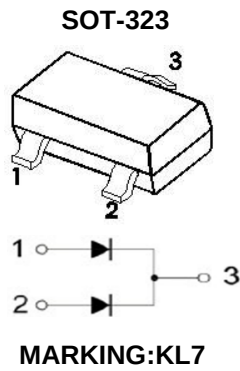


SOT-323 贴片塑封肖特基二极管

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

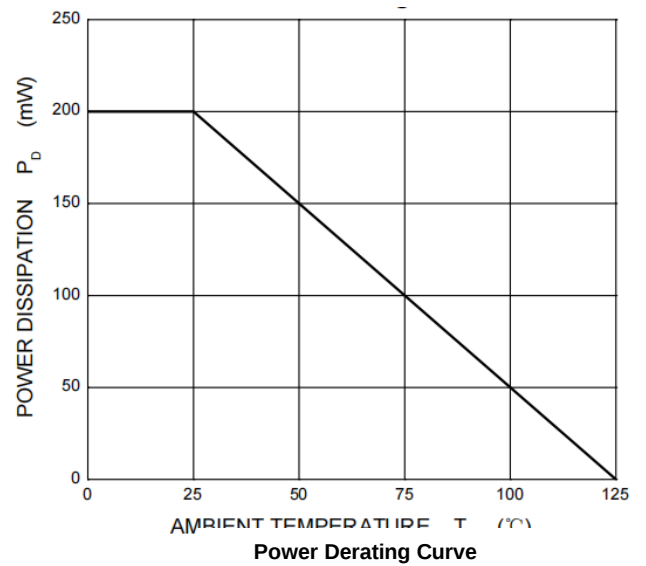
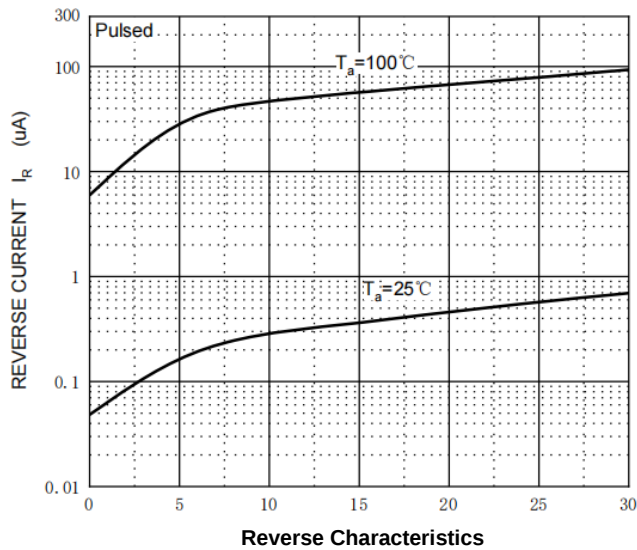
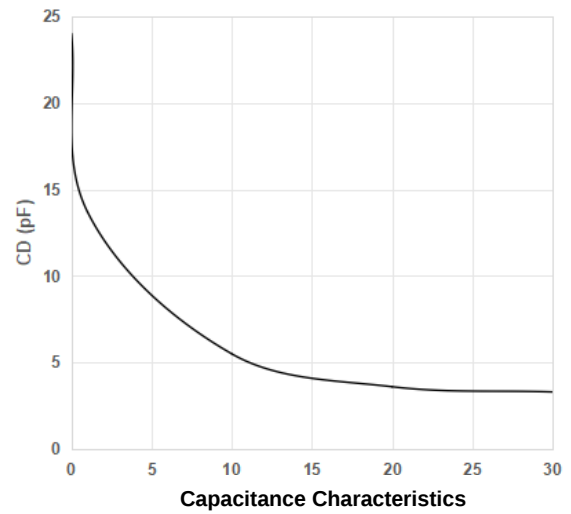
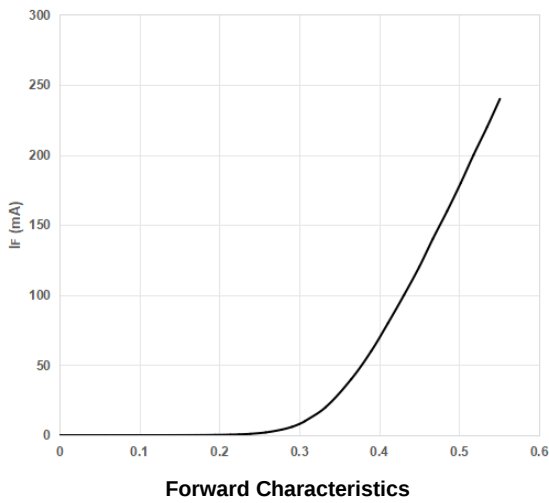
Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise specified)

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

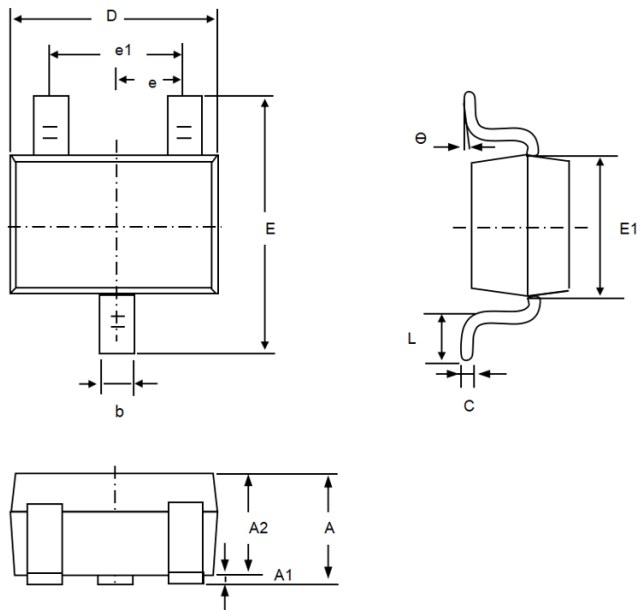
Electrical Characteristics(T_A=25°C unless otherwise specified)

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)

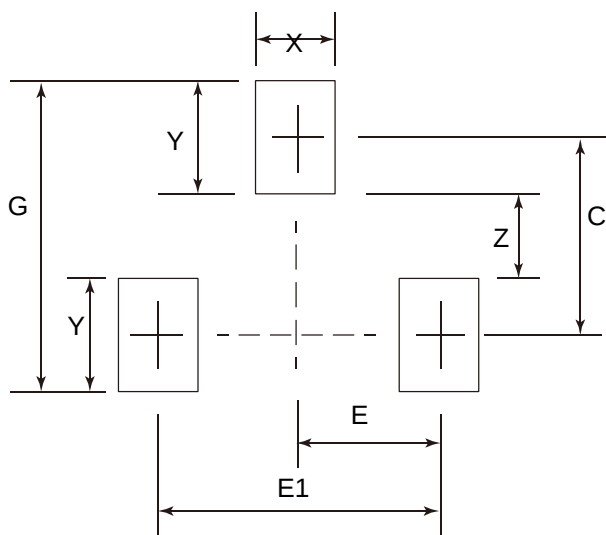


SOT-323 Package Outline Drawing



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



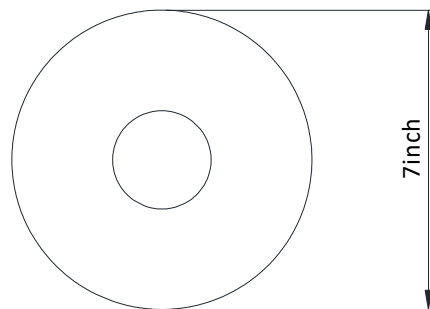
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
C	2.2	0.087
E	0.65	0.026
E1	1.30	0.051
G	2.60	0.102
X	0.50	0.020
Y	0.80	0.031
Z	1.4	0.055

Ordering Information

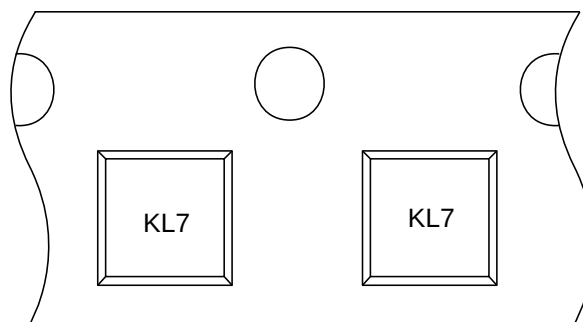
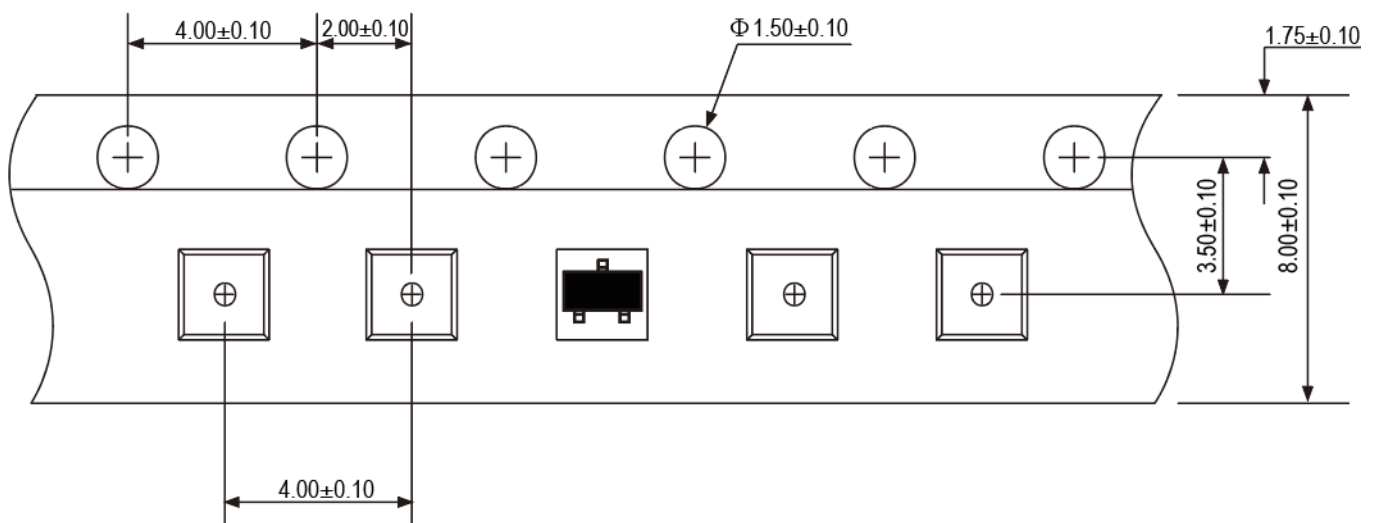
Part Number	Shipping	Reel Size
BAT540CW	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



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