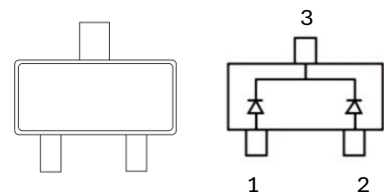


FEATURES AND BENEFITS

Product Summary		
I_O	200mA	@25 °C
V_F	0.32V	@1mA
V_{RRM}	30V	@25 °C

- For High-Speed Switching Applications
- Low Current Leakage
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.002 grams (Approximate)

SOT-523



Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Working Reverse Voltage	V_{RWM}	30	V
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current (@t=8.3ms)	I_{FSM}	600	mA
Power Dissipation	P_{TM}	150	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 to +150	°C

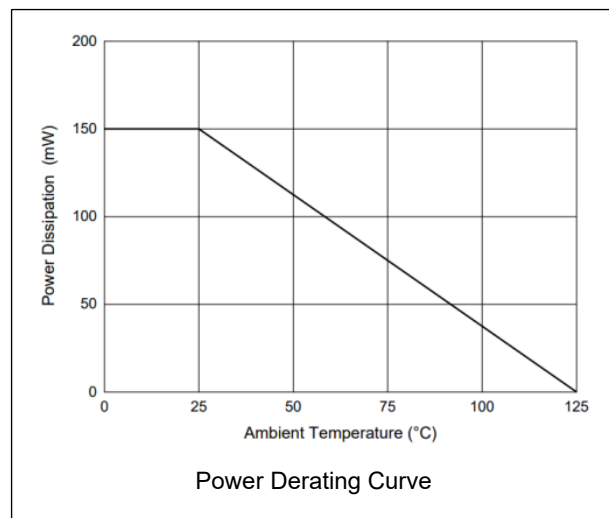
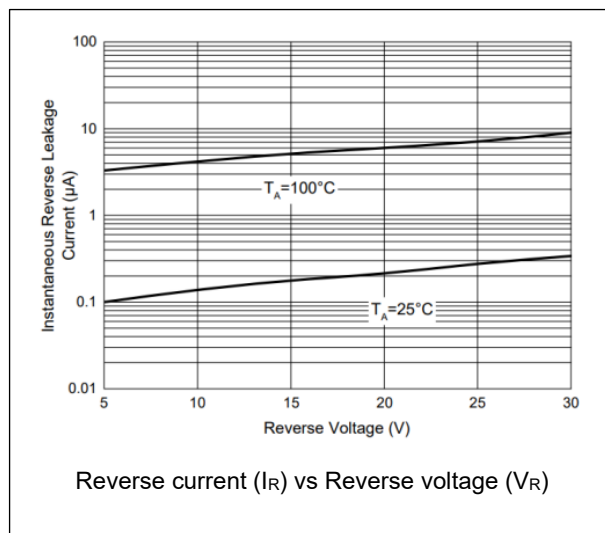
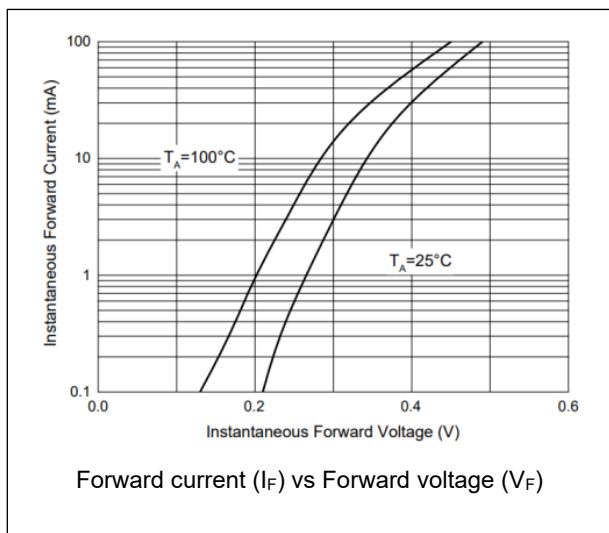
THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	667	°C/W

* Device mounted on 1"x1" FR4 PCB

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

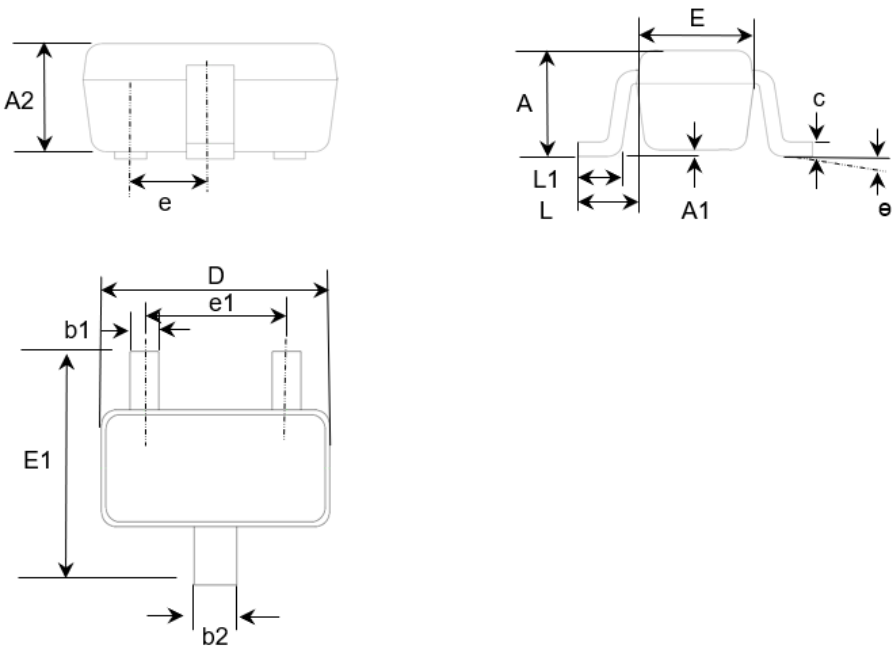
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 1\text{mA}$		0.32	V
		$I_F = 10\text{mA}$		0.40	
		$I_F = 30\text{mA}$		0.50	
		$I_F = 100\text{mA}$		1.00	
Reverse Current	I_R	$V_R = 25\text{V}$		2.0	μA
Capacitance	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$		10.0	pF
Reverse Recovery Time	t_{rr}	$I_F = 10\text{mA}, I_R = 10\text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\Omega$		5.0	ns

RATING AND CHARACTERISTICS CURVES



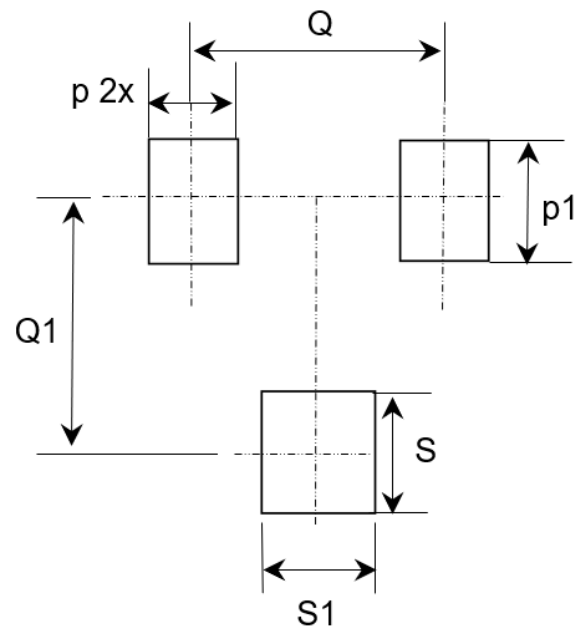
PACKAGE OUTLINE DIMENSIONS

SOT-523



Symbol	MIN	MAX
A	0.7	0.9
A1	0	0.1
A2	0.7	0.8
b1	0.15	0.25
b2	0.25	0.35
c	0.1	0.2
D	1.5	1.7
E	0.7	0.9
E1	1.45	1.75
e	0.50TYP	
e1	1.45	1.75
L	0.40REF	
L1	0.26	0.46
e	0°	8°
		Unit: mm

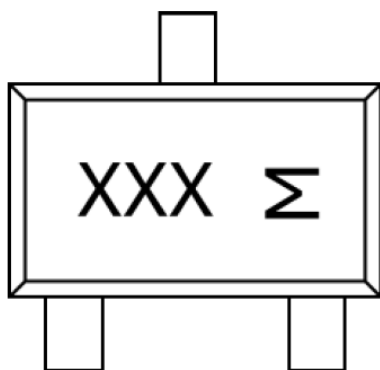
SUGGESTED PAD LAYOUT



Symbol	Type
Q1	1.24
Q	1.00
p	0.40
p1	0.60
S	0.60
S1	0.50
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAT54CT	L3	3000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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