

FEATURES AND BENEFITS

Product Summary		
I_O	1.0A	@25 °C
V_F	0.35V	@10mA
V_{RRM}	30V	@25 °C

- For General Purpose Switching Applications
- Low forward voltage
- 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: 0.0016 grams (Approximate)

SOD-523

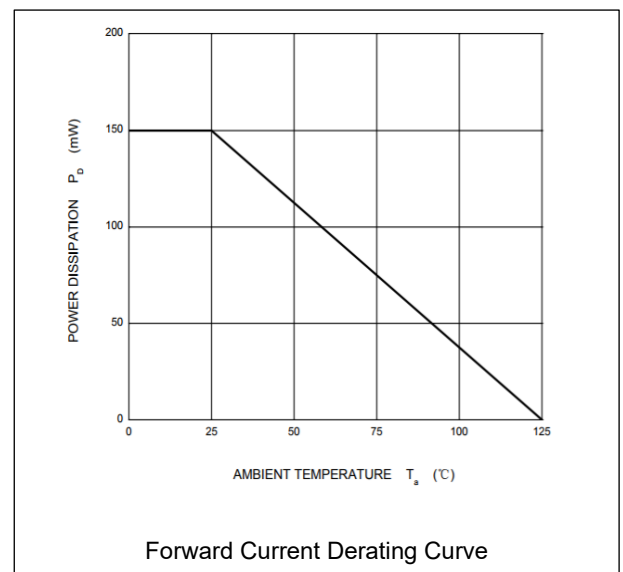
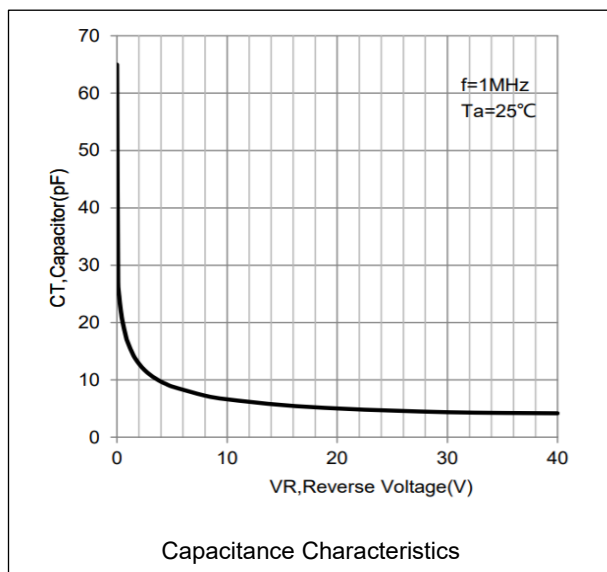
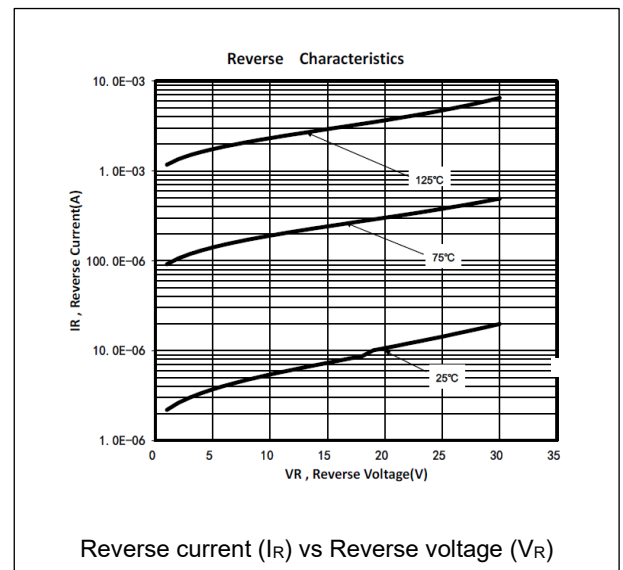
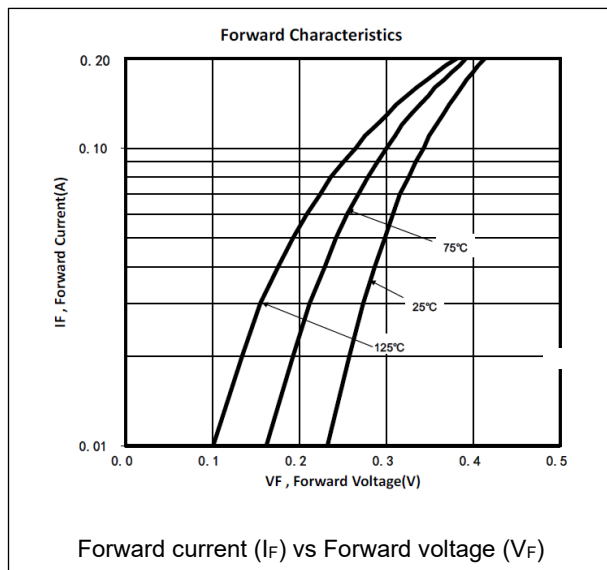


Cathode  Anode

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
Forward Continuous Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current (@t=8.3 ms)	I_{FSM}	1.0	A
Junction Temperature	T_J	-55 to +125	°C
Storage Temperature	T_{STG}	-55 to +125	°C

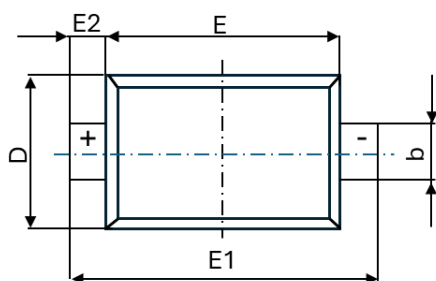
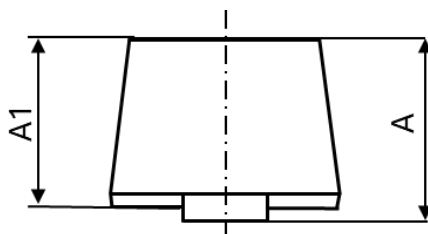
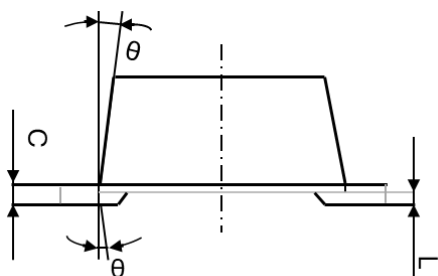
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 10mA$		0.35	V
		$I_F = 200mA$		0.50	
Reverse Current	I_R	$V_R = 10V$		30	μA
		$V_R = 20V$		100	
Breakdown Reverse Voltage	V_{BR}	$I_R = 500\mu A$	30		V

RATING AND CHARACTERISTICS CURVES



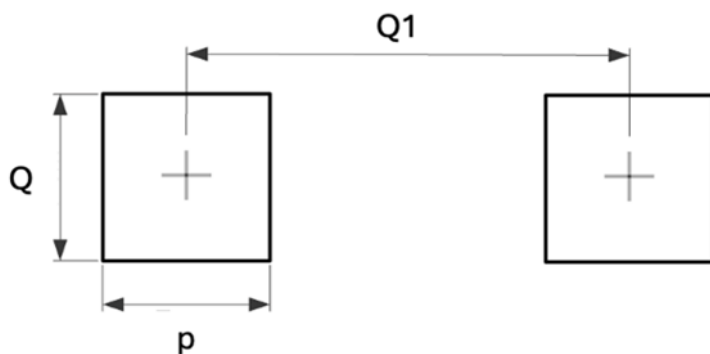
PACKAGE OUTLINE DIMENSIONS

SOD-523



Symbol	MIN	MAX
A	0.51	0.77
A1	0.50	0.70
b	0.25	0.35
c	0.08	0.15
D	0.75	0.85
E	1.10	1.30
E1	1.50	1.70
E2	0.20REF.	
L	0.01	0.07
θ	7°REF.	
Unit: mm		

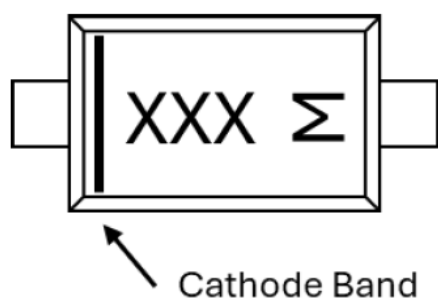
SUGGESTED PAD LAYOUT



Symbol	Type
Q1	1.42
Q	0.7
p	0.6
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
RB521SM5-30	C	8000/7"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

NOTICE:

AZUREMOTO'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS COMPONENTS IN ANY LIFE SUPPORT DEVICES OR SYSTEMS.

AZUREMOTO RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY OR RUGGEDNESS.