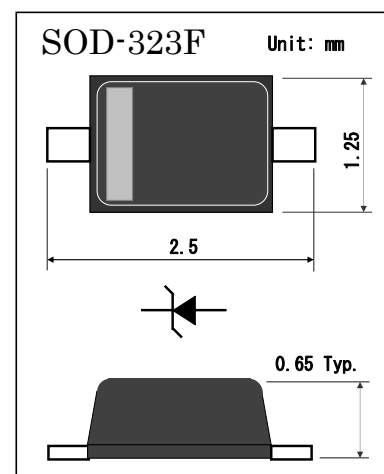


■ Features

- Low Forward Voltage Schottky Rectifier
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking



■ Mechanical Data

- package:SOD-323F
- Polarity: Color band denotes cathode end
- Flammability rating of epoxy resin: UL 94V-0
- Mounting Position: Any

■ ORDERING INFORMATION

Part Number	Package	Marking	Packing	Quantity per reel	Reel Size
BAT46WJ	SOD-323F	JK	Tape & Reel	3,000 PCS	7 inches

■ **Absolute Maximum Ratings**(Ratings at 25 °C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Units
VRRM	Repetitive Peak Reverse Voltage	100	V
VRWM	Working peak reverse voltage	100	V
IF	Forward continuous current	150	mA
IFRM	Repetitive peak forward current (Note 1) @ $t_p < 1.0s$, Duty Cycle < 50%	350	mA
IFSM	Non-repetitive Peak Forward surge current @ $t = 8.3ms$	750	mA
PD	Power Dissipation	200	mW
R θ JA	Thermal resistance junction to ambient air	500	°C/W
TJ	Junction Temperature	125	°C
TSTG	Storage Temperature	-55 to +150	°C

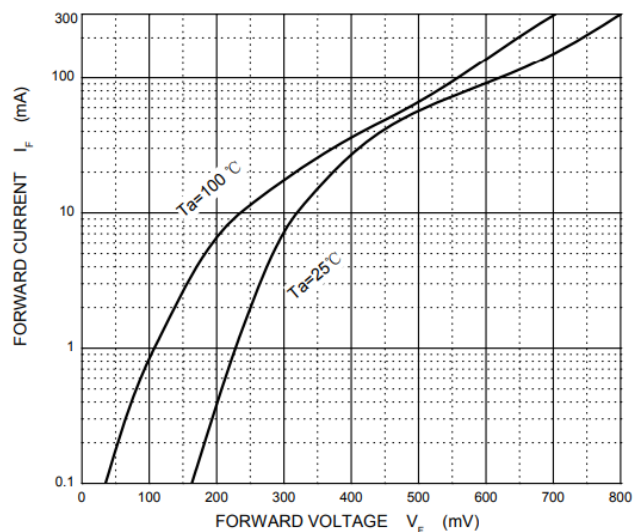
■ **Electrical Characteristics**(Ratings at 25 °C ambient temperature unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
BVR	Breakdown Voltage	$I_R = 100\mu A$	100			V
IR	Reverse voltage leakage current	$V_R = 1.5V$			0.3	μA
		$V_R = 10V$			0.5	
		$V_R = 50V$			1	
		$V_R = 75V$			2	
VF	Forward Voltage	$I_F = 0.1mA$			0.25	V
		$I_F = 10mA$			0.45	
		$I_F = 250mA$			1	
CT	Capacitance	$V_R = 0V, f = 1MHz$		20		pF
		$V_R = 1V, f = 1MHz$		12		

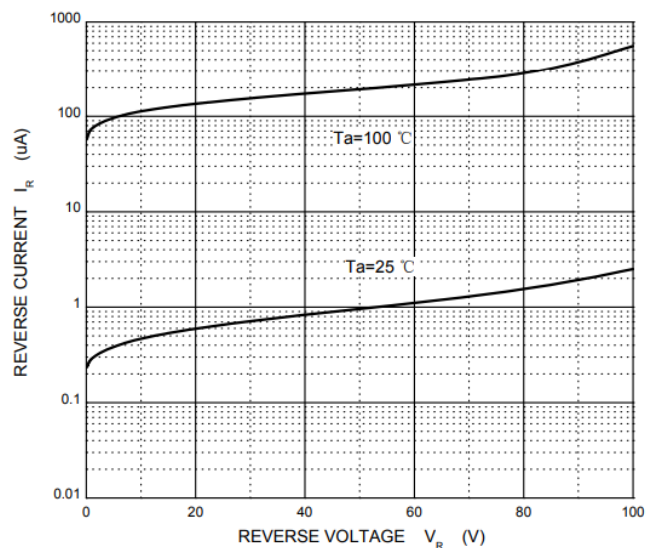


■ Typical Characteristics

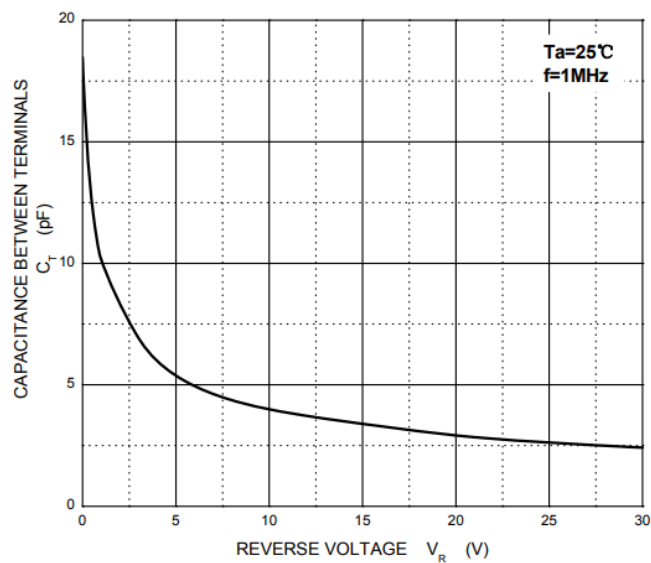
Forward Characteristics



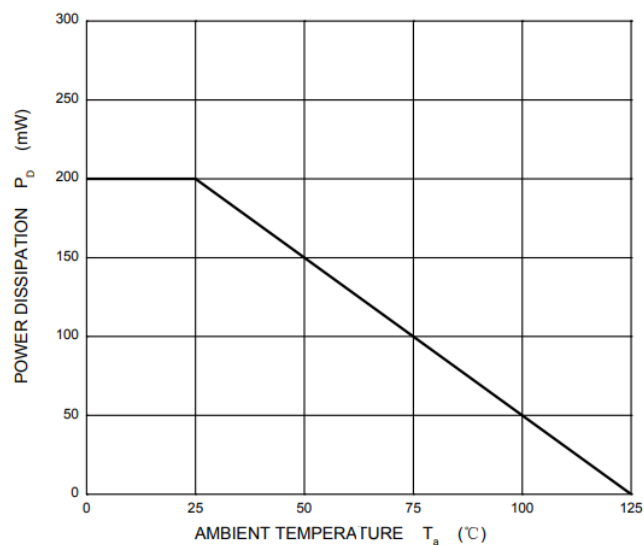
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





■ SOD-323 Package Outline Dimensions

