

RoHS Compliant Product
A suffix of "-C" specifies and halogen-free

FEATURES

- Schottky barrier rectifier
- Guardring protection
- Low forward voltage
- Reverse energy tested

MECHANICAL DATA

- Case: SOD-323T molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: Any

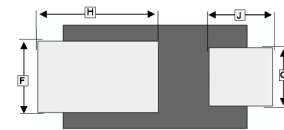
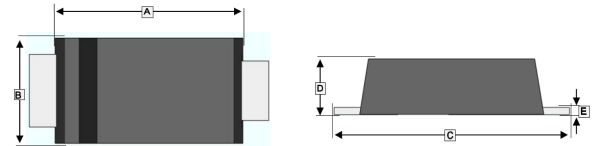
MARKING CODE

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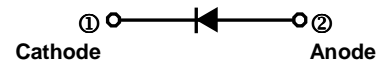
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323T	5K	7' inch

SOD-323T



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.75	1.95	F	0.65	0.95
B	1.20	1.40	G	0.45	0.75
C	2.30	2.70	H	1.15	1.55
D	0.55	0.75	J	0.40	0.80
E	0.10	0.20			



MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified.)

Parameter	Symbol	Rating	Unit
Recurrent Peak Reverse Voltage	V_{RRM}	60	V
RMS Voltage	V_{RMS}	42	V
Reverse Voltage	V_R	60	V
Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	20	A
Typical Thermal Resistance, Junction to Lead ¹	$R_{\theta JL}$	40	$^\circ\text{C/W}$
Typical Thermal Resistance, Junction to Ambient ¹	$R_{\theta JA}$	220	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 ~ 150	$^\circ\text{C}$

Note:
1. Mounted on P.C Board with (15mm*50mm) copper pad areas

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Rating			Unit	
		Min.	Typ.	Max.		
Breakdown Voltage @ $I_R=1\text{mA}$	V_{BR}	60	-	-	V	
Forward Voltage	V_F	$T_A=25^\circ\text{C}$	$I_F=0.1\text{A}$	0.41	-	V
			$I_F=0.7\text{A}$	0.57	-	
			$I_F=1\text{A}$	0.61	0.68	
		$T_A=125^\circ\text{C}$	$I_F=0.1\text{A}$	0.28	-	
			$I_F=0.7\text{A}$	0.51	-	
			$I_F=1\text{A}$	0.56	-	
Reverse Current (Max.)	I_R	$T_A=25^\circ\text{C}$	$V_R=5\text{V}$	0.07	-	μA
			$V_R=60\text{V}$	-	1.05	50
		$T_A=125^\circ\text{C}$	$V_R=60\text{V}$	-	0.8	-

CHARACTERISTIC CURVES

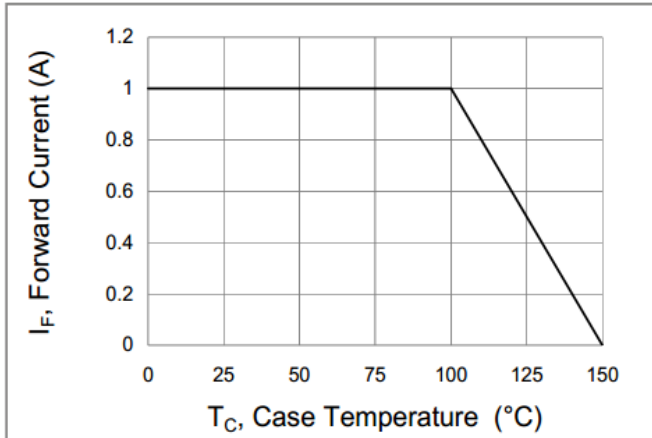


Fig.1 Forward Current Derating Curve

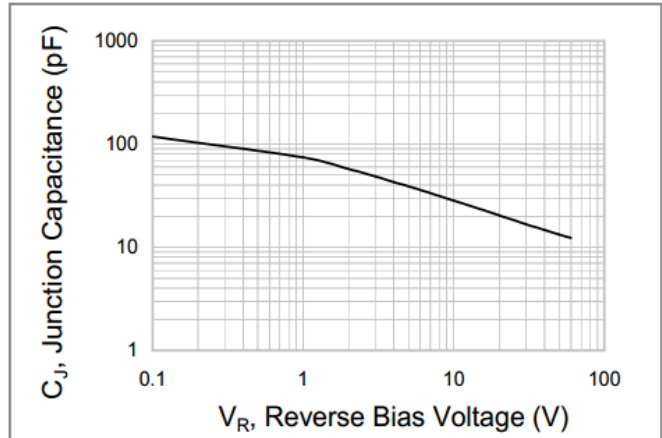


Fig.2 Typical Junction Capacitance

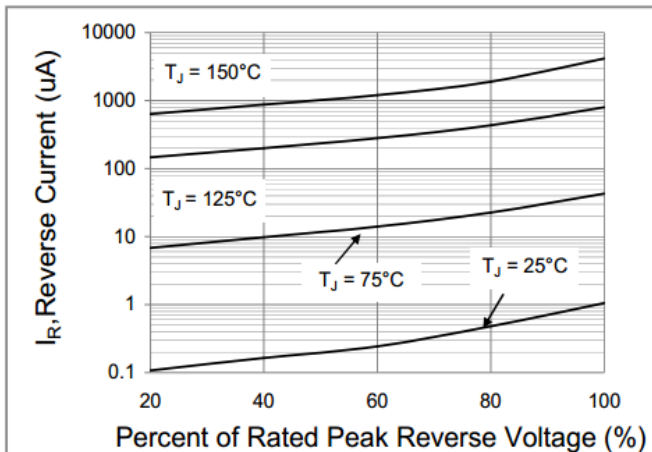


Fig.3 Typical Reverse Characteristics

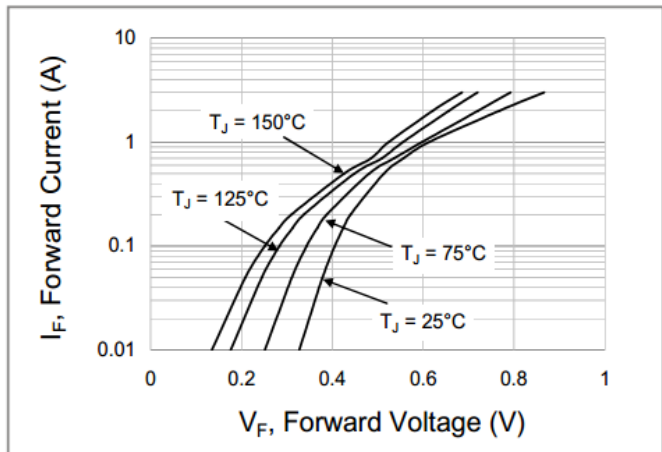


Fig.4 Typical Forward Characteristics